SANITARY SEWER CONSTRUCTION

SEABROOK, NEW HAMPSHIRE

CONTRACT NO. 1

1988

JONES & BEACH/STEARNS & WHEELER

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

RECORD DRAWING

ABBREVIATIONS

BENCHMARK	BM
BITUMINOUS	BIT
CAST IRON PIPE	CIP
CATCH BASIN	CB
CONCRETE	CONC
CORR. METAL PIPE	CMP
DRAIN	D
ELEVATION	EL
FENCE	FC
FIRST FLOOR	FF
FORCE MAIN	FM
GAS MAIN	G
GUIDE POST	GP
HYDRANT	HYD
INVERT	INV
IRON PIN	IP
LAMP POLE	LP
MANHOLE	MH
MONUMENT	MON
PERCENT GRADE	%
PERM. EASEMENT	PE
RIGHT OF WAY	ROW
SEWER	S
STONE	ST
SEWER MANHOLE	SMH
TEMP. EASEMENT	TE
WATER	W
WOOD	WD
WOVEN WIRE	WW
PROPERTY LINE	P
GRAVEL	GRAV

SELECTMEN

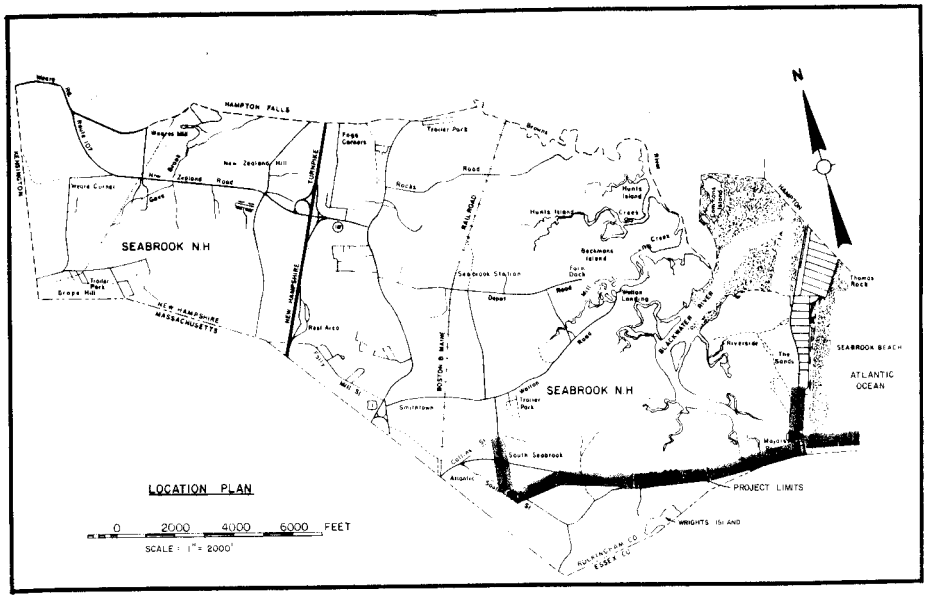
IVAN Q. EATON, CHAIRMAN

ASA H. KNOWLES

ELIZABETH A. THIBODEAU

TOWN MANAGER

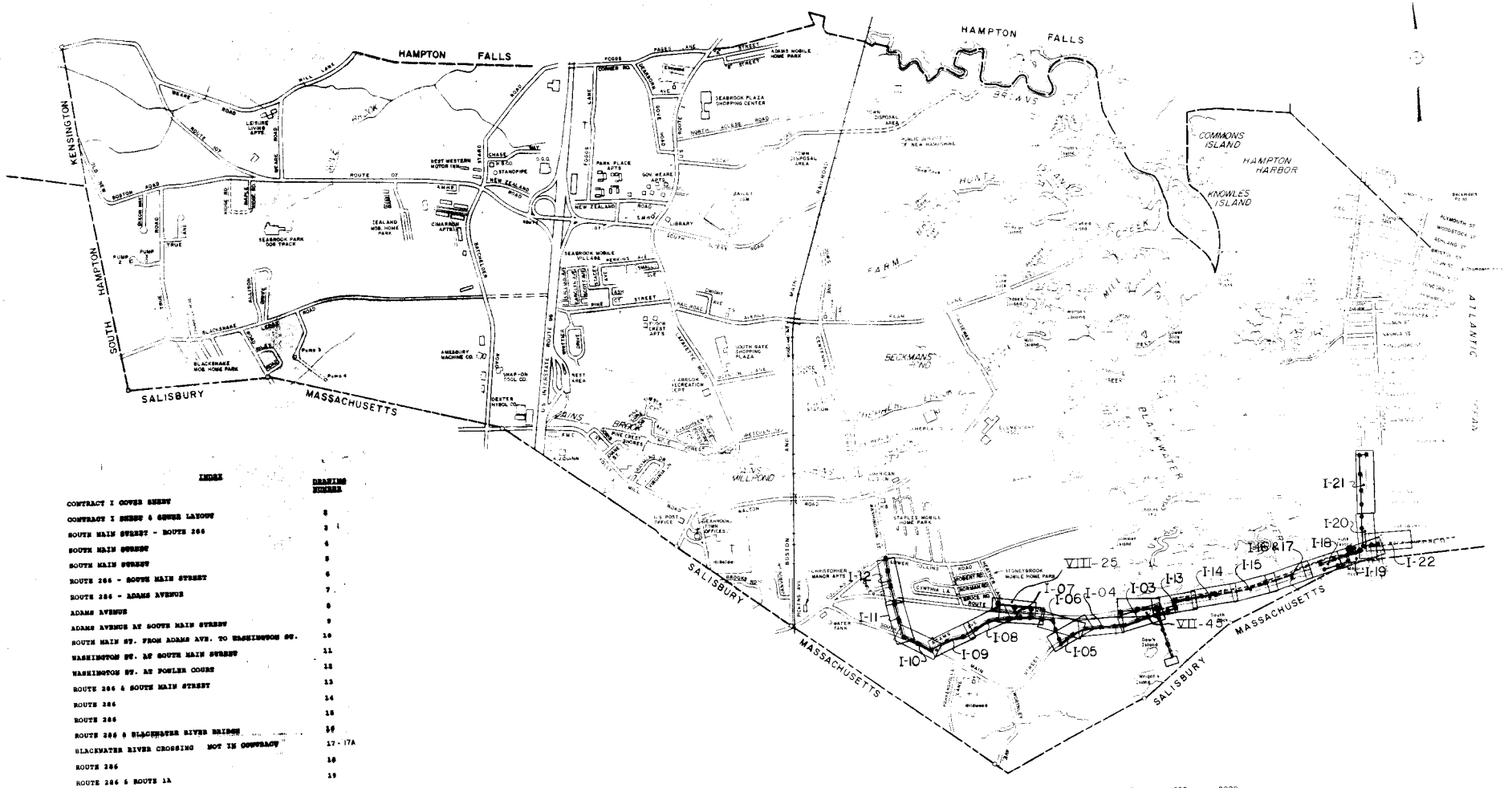
E. RUSSELL BAILEY



LEGEND

PROPOSED SANITARY SEWER WITH LATERAL	
EXISTING SANITARY SEWER WITH LATERAL	
SANITARY SEWER WITH PROFILE ON ANOTHER SHEET	
FORCE MAIN	
PUMP STATION (PROPOSED/EXISTING)	P.S. / P.S.
OCEAN OUTFALL WITH STATIONING	2+00
MANHOLE (PROPOSED/EXISTING)	M.H. / M.H.
CATCH BASIN (PROPOSED/EXISTING)	C.B. / C.B.
CULVERT	12"C.M.P.
HYDRANT	HYD
WATER MAIN	W
WATER VALVE/WATER SERVICE	W.V. / W.S.
GAS MAIN	G
GAS VALVE/GAS SERVICE	G.V. / G.S.
UNDERGROUND TELEPHONE/ELECTRICAL	T / E
STREAM/BROOK	
POND/WET AREA	
RIVER	
WOODS AND/OR BRUSH LINE	
APPROXIMATE TOWN/STATE LINE	
APPROXIMATE RIGHT-OF-WAY LINE	
EXISTING CONTOUR	50
PROPOSED CONTOUR	50
LEDGE OUTCROP	
RETAINING WALL	
GUARD RAIL	
STONE WALL	
FENCE	
CONIFEROUS/DECIDUOUS TREES	
SHRUBS OR BUSH	
HOUSE OR BUILDING	
HOUSE NUMBER	24
HOUSE WITH SEWER SERVICE	
UTILITY POLE	
LAMP POLE	L.P.
MAILBOX	M.B.
SIGN	S
BASELINE CONTROL POINT	M-1
PIPE INSULATION	
FABRIC FENCE (SILTATION CONTROL)	

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others the existence of which is presently not known.



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RECORD DRAWING

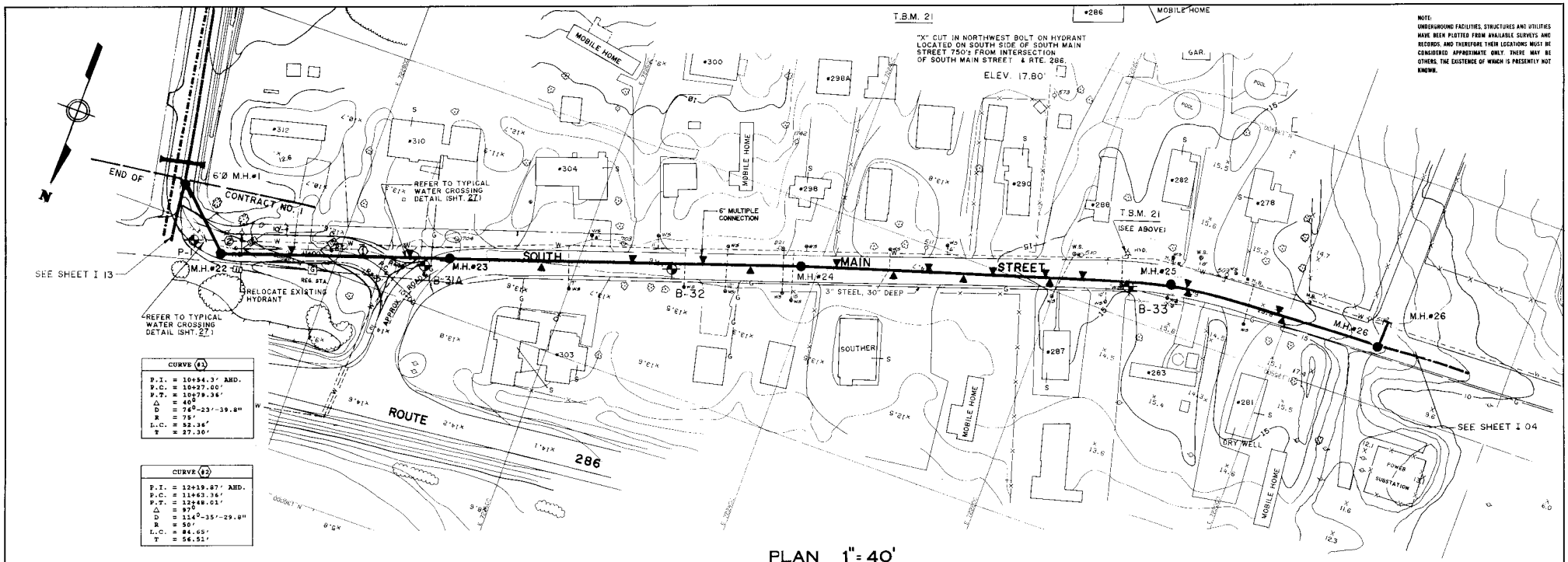
TOWN OF SEABROOK, NEW HAMPSHIRE

CONTRACT NO. I
SHEET AND SEWER LAYOUT

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

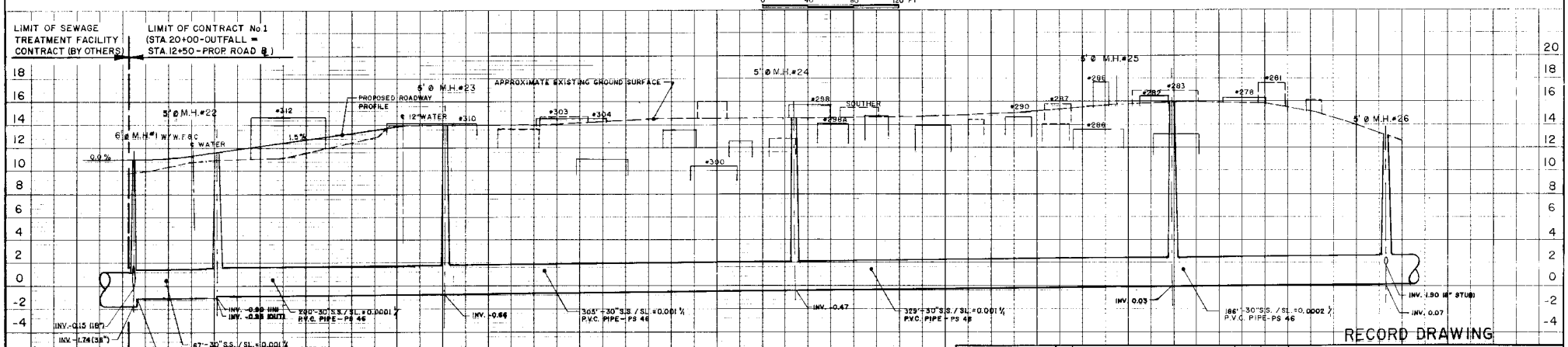
NO.	ISSUED FOR APPROVAL					
0	RHB	11/88	JAH	JDE	BMF	11/88
	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 2 OF 29



PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

SOUTH MAIN STREET — ROUTE 286

(MANHOLE NO.1)-(MANHOLE NO.26)

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING EM	8/94				
1	GENERAL REVISIONS DAJ	3/92	BHJ		BHJ	3/92
0	INITIAL ISSUE EMG	7/98	JAH		JHF	11/98

PROJECT SUPERVISOR: John A. Higgins APPROVED: Charles H. Watson

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

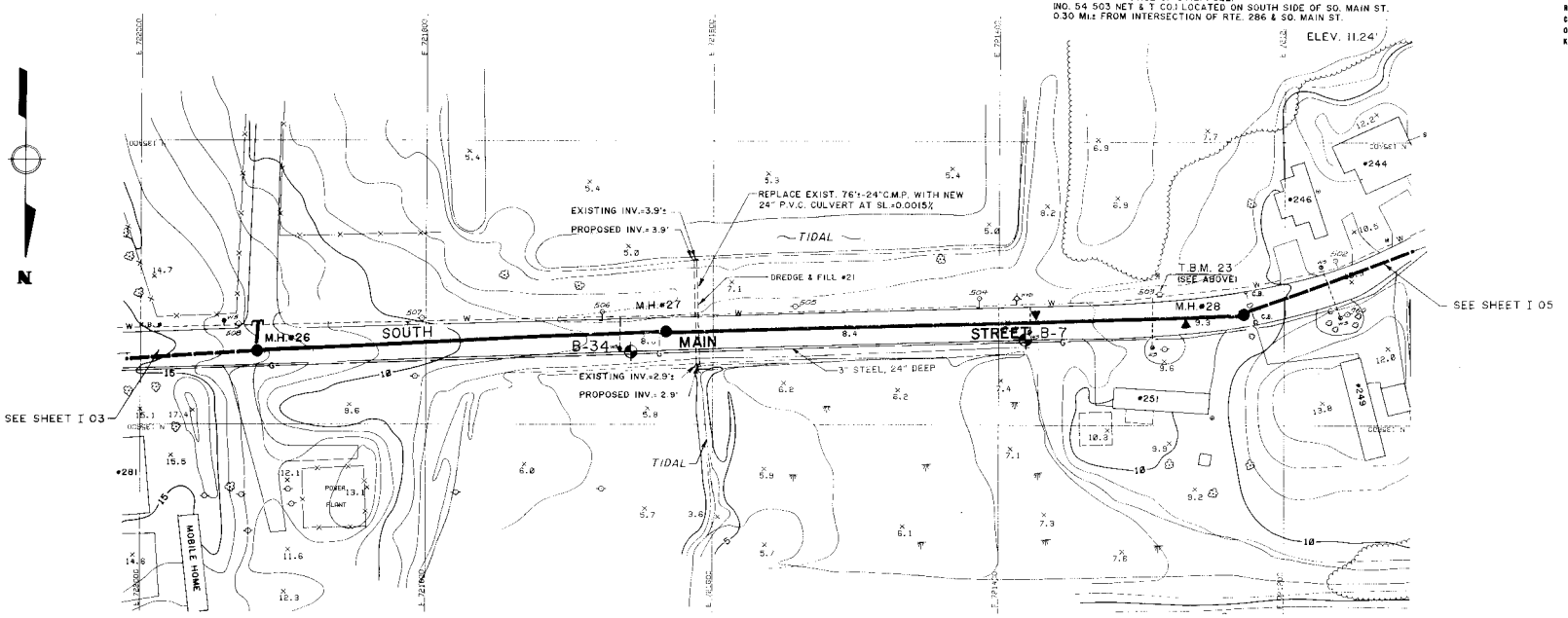
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. I SHEET 03 of 29

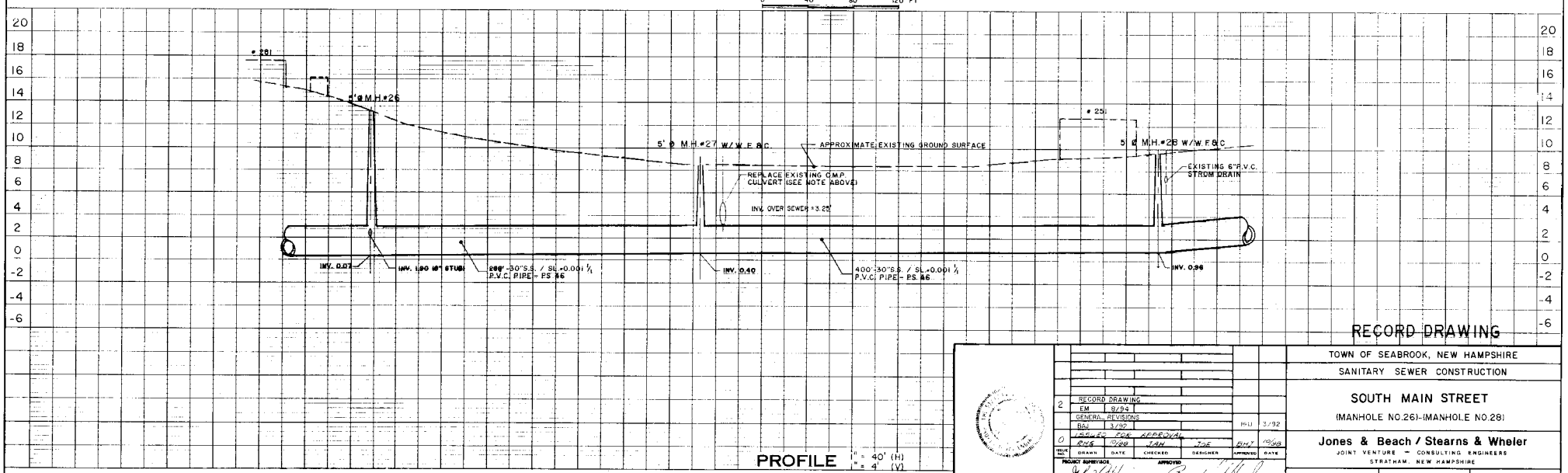
H.N. SULLIVAN INC 836587

T.B.M. 23
NAIL IN NORTH FACE OF UTIL. POLE.
ING. 54 503 NET & T CO.) LOCATED ON SOUTH SIDE OF SO. MAIN ST.
0.30 MILE FROM INTERSECTION OF RTE. 286 & SO. MAIN ST.
ELEV. 11.24'

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT


#281
5'ØM.H.#26
5' Ø M.H.#27 W/W.F.&C.
APPROXIMATE EXISTING GROUND SURFACE
5' Ø M.H.#28 W/W.F.&C.
#251
REPLACE EXISTING C.M.P. CULVERT (SEE NOTE ABOVE)
INV. OVER SEWER =3.25'
EXISTING 6"P.V.C. STROM DRAIN
INV. 0.07
INV. 1.90 8" STUB
288'-30"S.S. / SL.=0.001 1/4 P.V.C. PIPE - FS #6
INV. 0.40
400'-30"S.S. / SL.=0.001 1/4 P.V.C. PIPE - FS #6
INV. 0.36
20 18 16 14 12 10 8 6 4 2 0 -2 -4 -6

PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

SOUTH MAIN STREET
(MANHOLE NO.26)-(MANHOLE NO.28)

Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

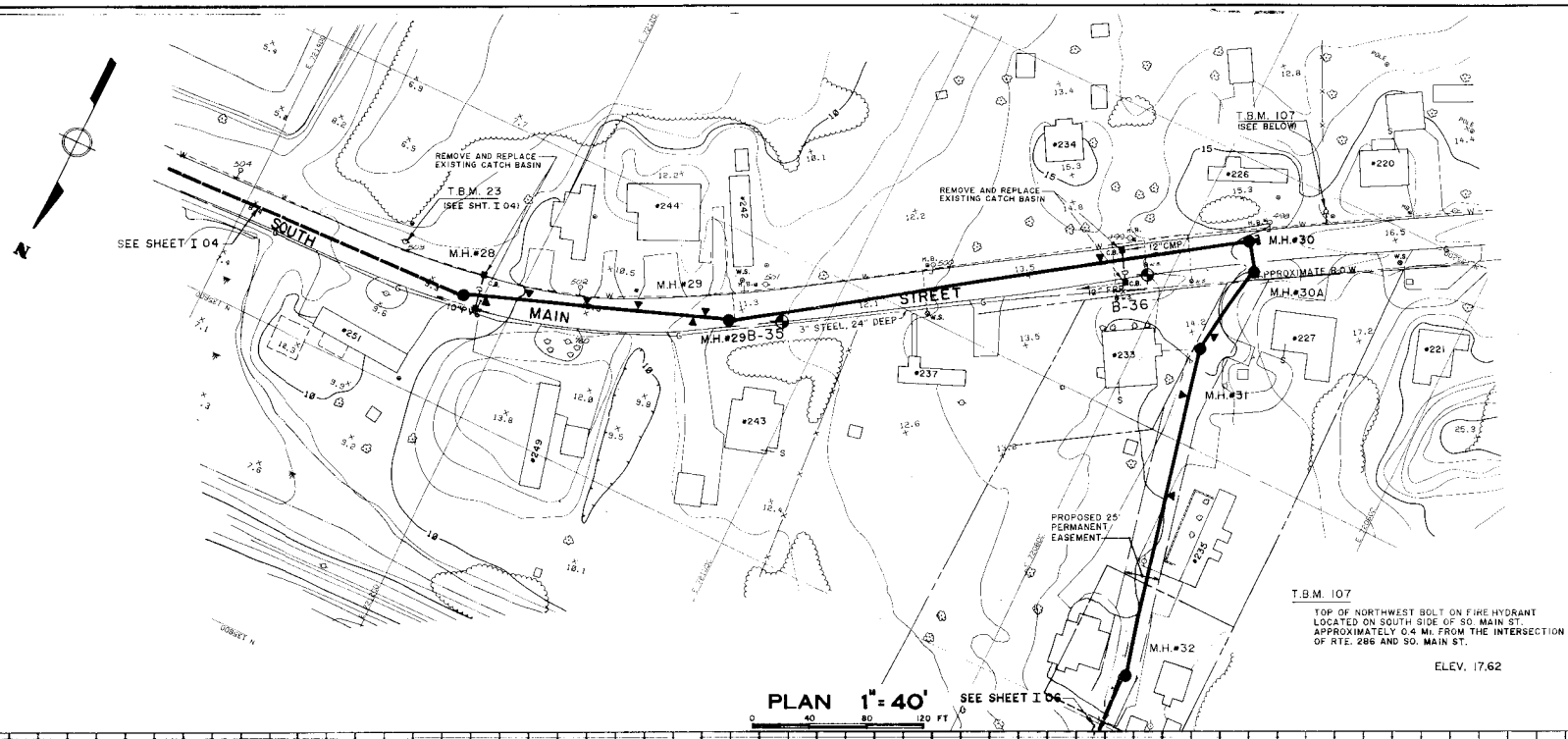
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING					
	EM	8/84				
	GENERAL REVISIONS					
	BAJ	3/92			PHJ	3/92
0	ISSUED FOR APPROVAL					
	BAS	7/88	JAN	JOE	PHJ	12/88

PROJECT SUPERVISOR: APPROVED

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 04 OF 29

H.M. SULLIVAN, INC. 806387

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



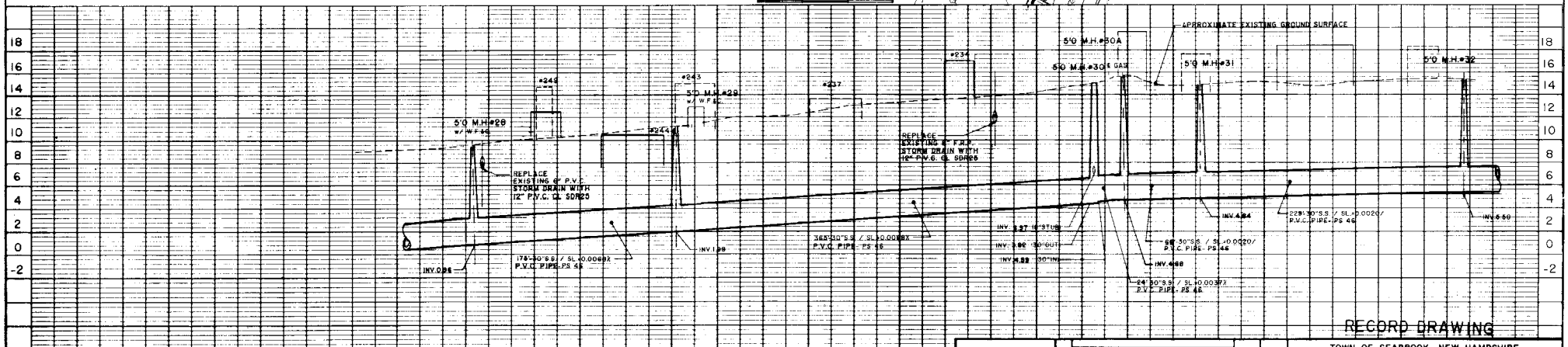
T.B.M. 107

TOP OF NORTHWEST BOLT ON FIRE HYDRANT LOCATED ON SOUTH SIDE OF SO. MAIN ST. APPROXIMATELY 0.4 MI. FROM THE INTERSECTION OF RTE. 286 AND SO. MAIN ST.

ELEV. 17.62

PLAN 1" = 40' SEE SHEET I 06

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	REVISIONS	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	EM	8/94				
1	GENERAL REVISIONS	BAJ	3/92	JAH	BAJ	BAJ	3/92
0	ISSUED FOR APPROVAL	SCH	12/91	JAH	JDE	BAJ	12/91

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

SOUTH MAIN STREET

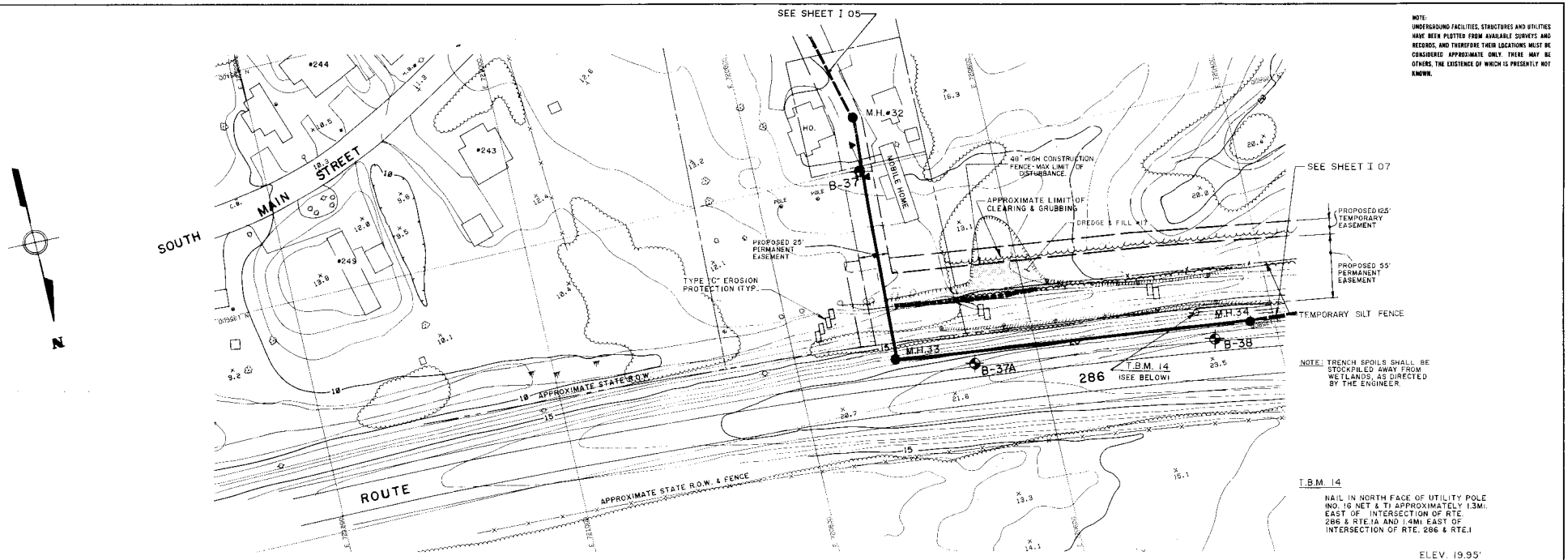
(MANHOLE NO.28)-(MANHOLE NO.32)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. I SHEET 05 OF 29



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

NOTE: TRENCH SPOILS SHALL BE STOCKPILED AWAY FROM WETLANDS, AS DIRECTED BY THE ENGINEER.

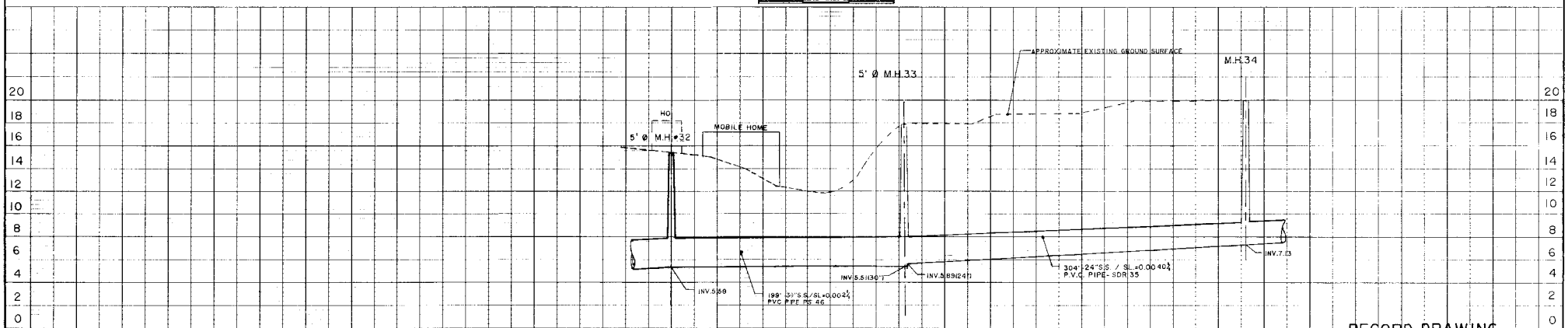
T.B.M. 14

NAIL IN NORTH FACE OF UTILITY POLE (NO. 16 NET & TI APPROXIMATELY 1.3MI. EAST OF INTERSECTION OF RTE. 286 & RTE.1A AND 1.4MI. EAST OF INTERSECTION OF RTE. 286 & RTE.1)

ELEV. 19.95'

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

4	RECORD DRAWING	EM	8/94			BHJ	3/92
3	GENERAL REVISIONS	BAJ	3/92	JAH	BAJ	JAH	8/90
2	GENERAL REVISIONS	WM	8/90	JAH		JAH	1/89
1	REMOVED ACCESS ROAD / FILLS	JOE	1/89	JAH	JOE	BHJ	1/88
0	ISSUED FOR APPROVAL	EMB	1/88	JAH	JOE	APPROVED	DATE
PROJECT NO.		DRAWN	DATE	CHECKED	DESIGNER		

PROJECT SURVEYOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 286 — SOUTH MAIN STREET

(MANHOLE NO.32)-(MANHOLE NO.34)

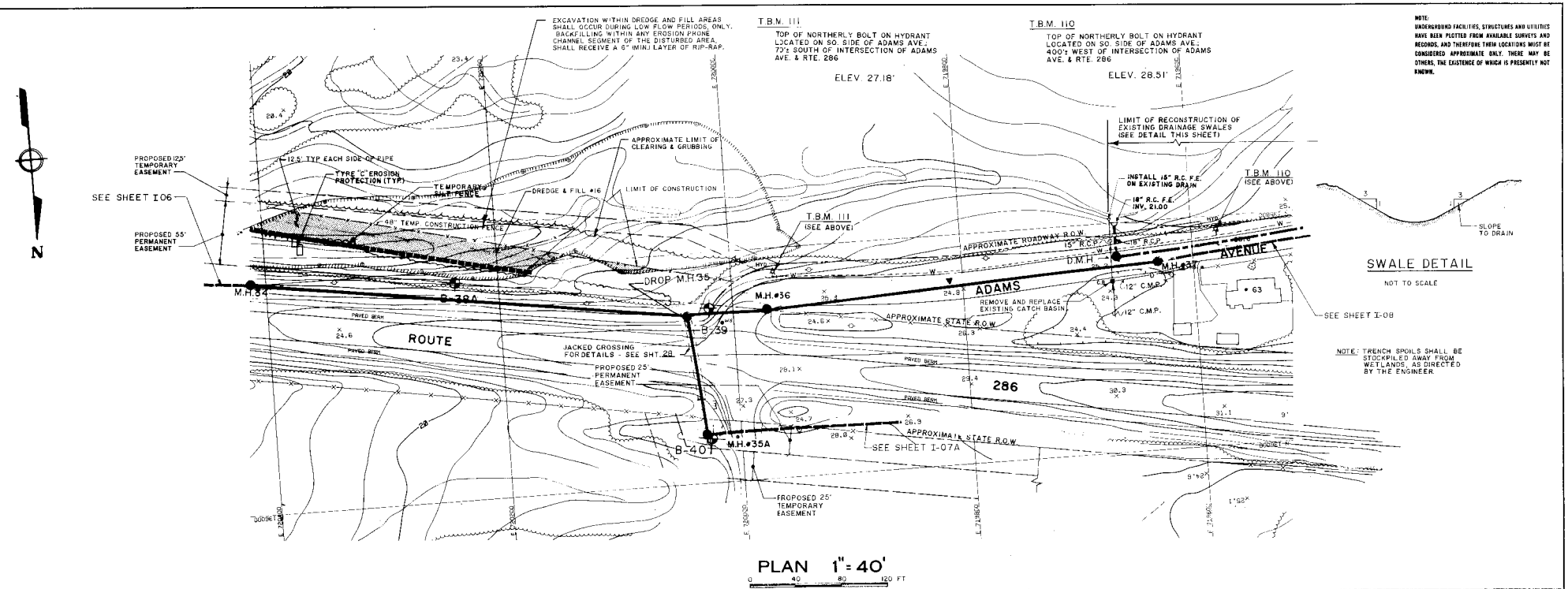
Jones & Beach / Stearns & Wheler

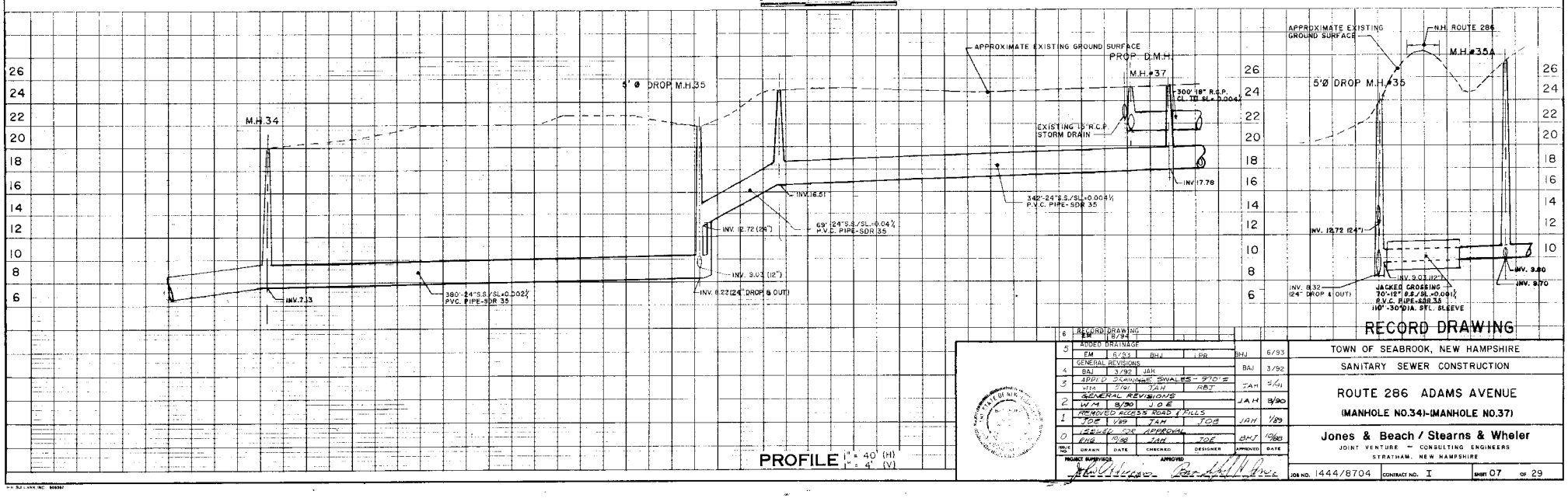
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 06 OF 29

H.M. SULLIVAN, INC. 806067


EXCAVATION WITHIN DREDGE AND FILL AREAS SHALL OCCUR DURING LOW FLOW PERIODS, ONLY. BACKFILLING WITHIN ANY EROSION PRONE CHANNEL SEGMENT OF THE DISTURBED AREA, SHALL RECEIVE A 6" (MIN.) LAYER OF RIP-RAP.
T.B.M. 111
TOP OF NORTHERLY BOLT ON HYDRANT LOCATED ON SO. SIDE OF ADAMS AVE., 73'± SOUTH OF INTERSECTION OF ADAMS AVE. & RTE. 286
ELEV. 27.18'
T.B.M. 110
TOP OF NORTHERLY BOLT ON HYDRANT LOCATED ON SO. SIDE OF ADAMS AVE., 400'± WEST OF INTERSECTION OF ADAMS AVE. & RTE. 286
ELEV. 28.51'
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
LIMIT OF RECONSTRUCTION OF EXISTING DRAINAGE SWALES (SEE DETAIL THIS SHEET)
INSTALL 18" R.C. F.E. ON EXISTING DRAIN
18" R.C. F.E. INV. 21.00
T.B.M. 110 (SEE ABOVE)
T.B.M. 111 (SEE ABOVE)
PROPOSED 125' TEMPORARY EASEMENT
SEE SHEET 106
PROPOSED 55' PERMANENT EASEMENT
12.5' TYP EACH SIDE OF PIPE
TYPE "C" EROSION PROTECTION (TYP.)
TEMPORARY SILT FENCE
DREDGE & FILL #16
LIMIT OF CONSTRUCTION
48" TEMP. CONSTRUCTION FENCE
APPROXIMATE LIMIT OF CLEARING & GRUBBING
APPROXIMATE ROADWAY R.O.W.
15" R.C.P.
18" R.C.P.
D.M.H.
M.H.#37
ADAMS AVENUE
DROP M.H.35
M.H.#36
M.H.#34
B-39A
B-39
B-40
ROUTE 286
REMOVE AND REPLACE EXISTING CATCH BASIN
12" C.M.P.
APPROXIMATE STATE R.O.W.
JACKED CROSSING FOR DETAILS - SEE SHT. 28
PROPOSED 25' PERMANENT EASEMENT
PAVED BERM
M.H.#35A
SEE SHEET I-07A
PROPOSED 25' TEMPORARY EASEMENT
SEE SHEET I-08
NOTE: TRENCH SPOILS SHALL BE STOCKPILED AWAY FROM WETLANDS AS DIRECTED BY THE ENGINEER.
SWALE DETAIL
NOT TO SCALE
SLOPE TO DRAIN
N
PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
6	RECORD DRAWING	EM	8/94			BHJ	6/93
5	ADDED DRAINAGE	EM	6/93	BHJ	LPR	BHJ	6/93
4	GENERAL REVISIONS	BAJ	3/92	JAH		BAJ	3/92
3	ADDED DRAINAGE SWALES - STA'S	JAH	5/91	JAH	RBT	JAH	5/91
2	GENERAL REVISIONS	WM	8/90	JOE		JAH	8/90
1	REMOVED ACCESS ROAD & FILLS	JOE	1/89	JAH	JOE	JAH	1/89
0	ISSUED FOR APPROVAL	EHE	9/88	JAH	JOE	BHJ	9/88

PROJECT SURVEYOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 286 ADAMS AVENUE

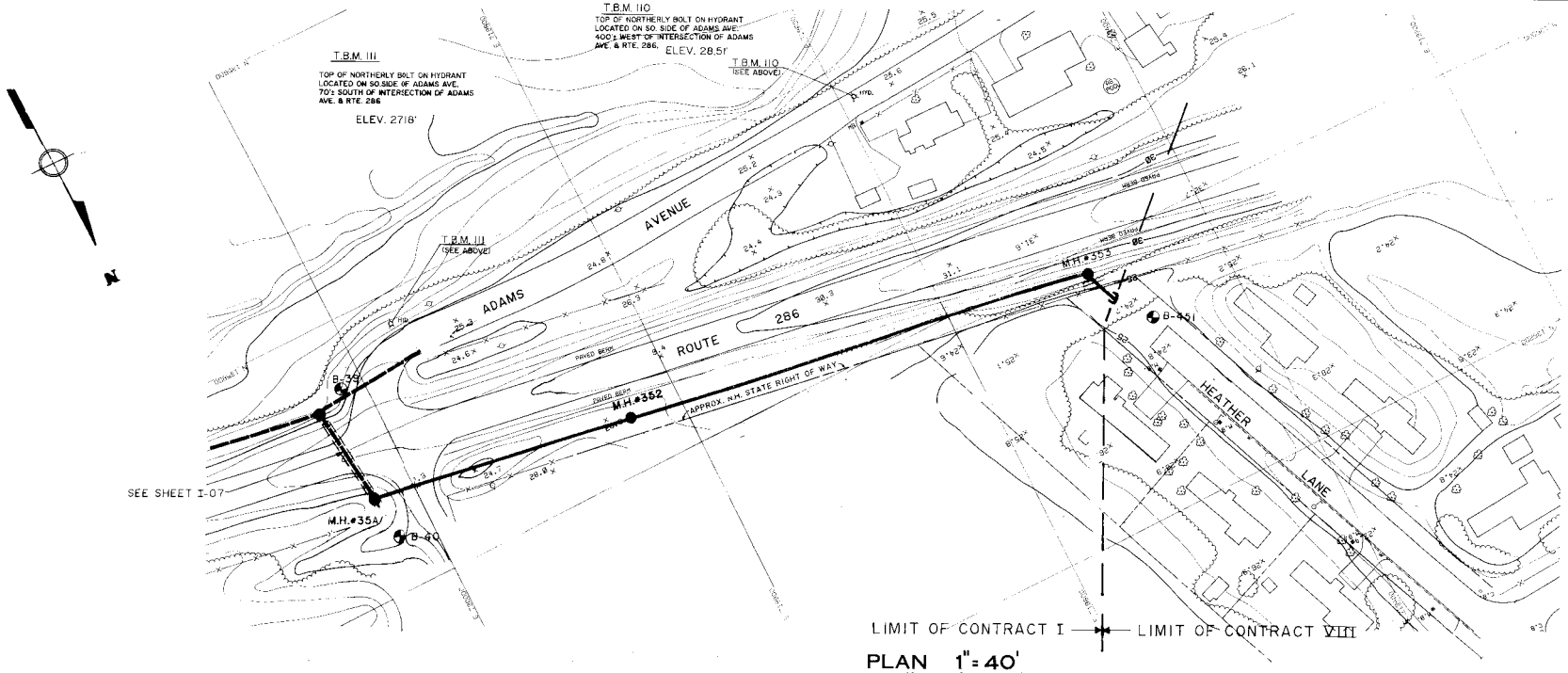
(MANHOLE NO.34)-(MANHOLE NO.37)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

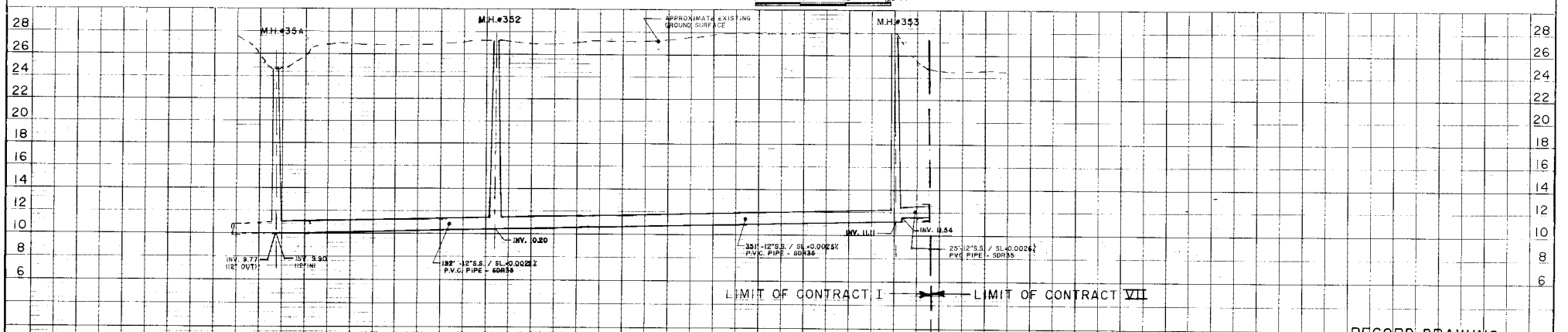
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 07 OF 29


T.B.M. 110
TOP OF NORTHERLY BOLT ON HYDRANT LOCATED ON SO. SIDE OF ADAMS AVE. 400± WEST OF INTERSECTION OF ADAMS AVE. & RTE. 286. ELEV. 28.51'
T.B.M. 111
TOP OF NORTHERLY BOLT ON HYDRANT LOCATED ON SO.SIDE OF ADAMS AVE. 70'± SOUTH OF INTERSECTION OF ADAMS AVE. & RTE 286
ELEV. 27.18'
T.B.M. 110 (SEE ABOVE)
T.B.M. 111 (SEE ABOVE)
ADAMS AVENUE
ROUTE 286
PAVED BERM
APPROX. N.H. STATE RIGHT OF WAY
M.H.#352
M.H.#353
M.H.#35A
B-39
B-40
B-41
HEATHER LANE
SEE SHEET I-07
LIMIT OF CONTRACT I
LIMIT OF CONTRACT VIII

PLAN 1" = 40'

0 40 80 120 FT


M.H.#35A
M.H.#352
M.H.#353
APPROXIMATE EXISTING GROUND SURFACE
INV. 9.77 (12" OUT)
INV. 9.93 (12" IN)
INV. 0.20
INV. 11.11
INV. 11.54
132' - 12" S.S. / SL=0.0022' P.V.C. PIPE - SDR35
35.1' - 12" S.S. / SL=0.0025' P.V.C. PIPE - SDR35
25' - 12" S.S. / SL=0.0026' P.V.C. PIPE - SDR35
LIMIT OF CONTRACT I
LIMIT OF CONTRACT VII

PROFILE 1" = 40' (H) 1" = 4' (V)

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	EM	8/94	RECORD DRAWING			
0	SDC	6-93	RBJ	JEC	BHJ	6-93
			ISSUED FOR APPROVAL			

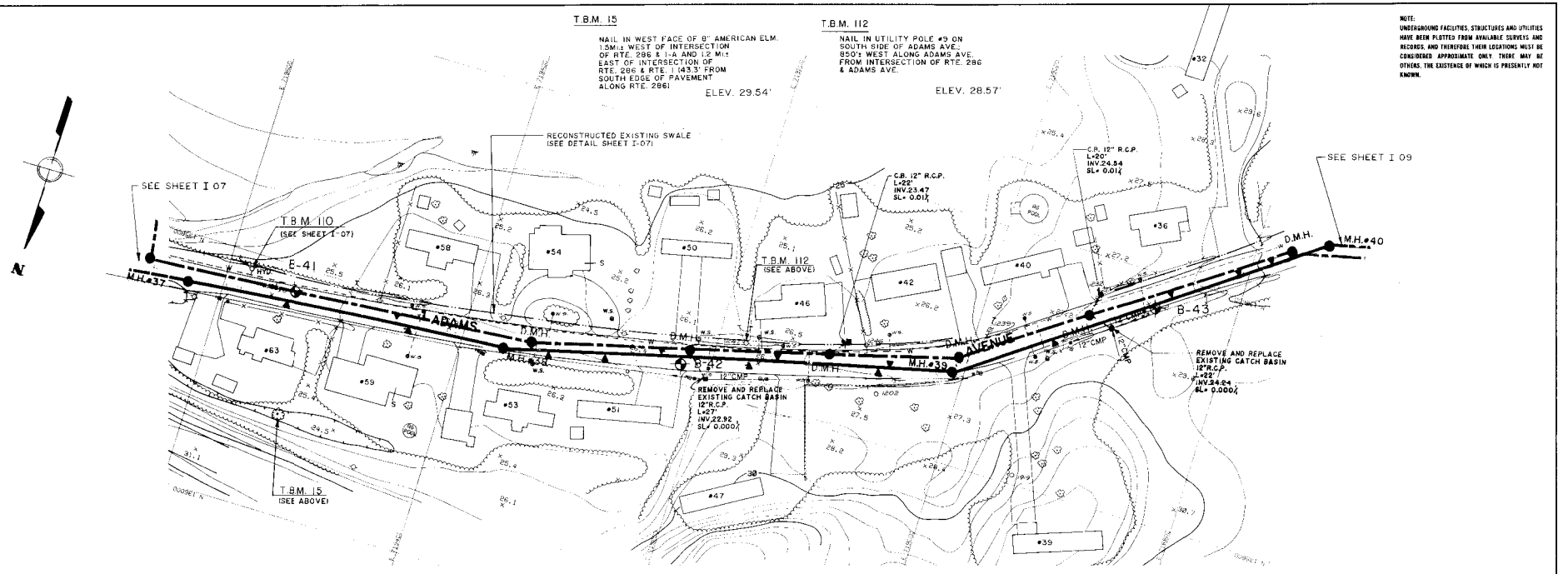
PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
ROUTE 286 - HEATHER LANE

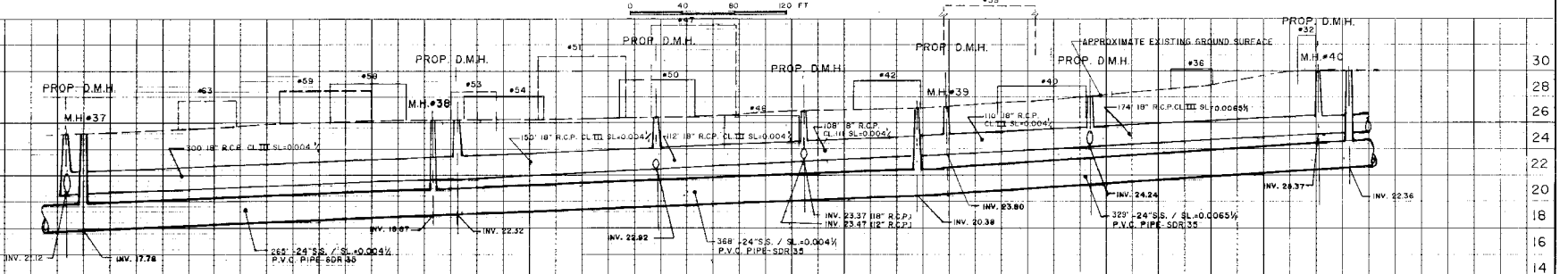
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. I SHEET 07A OF 29

H.H. SULLIVAN, INC. 508387


T.B.M. 15
NAIL IN WEST FACE OF 8" AMERICAN ELM. 1.5M± WEST OF INTERSECTION OF RTE. 286 & 1-A AND 1.2 M± EAST OF INTERSECTION OF RTE. 286 & RTE. 1 (43.3') FROM SOUTH EDGE OF PAVEMENT ALONG RTE. 286
ELEV. 29.54'
T.B.M. 112
NAIL IN UTILITY POLE #9 ON SOUTH SIDE OF ADAMS AVE. 950'± WEST ALONG ADAMS AVE. FROM INTERSECTION OF RTE. 286 & ADAMS AVE.
ELEV. 28.57'
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
N
SEE SHEET I 07
SEE SHEET I 09
RECONSTRUCTED EXISTING SWALE (SEE DETAIL SHEET I-07)
T.B.M. 110 (SEE SHEET I-07)
T.B.M. 112 (SEE ABOVE)
T.B.M. 15 (SEE ABOVE)
E-41
B-42
B-43
M.H.#37
M.H.#38
M.H.#39
M.H.#40
D.M.H.
ADAMS AVENUE
C.B. 12" R.C.P. L=22' INV.23.47 SL= 0.01%
C.B. 12" R.C.P. L=20' INV.24.54 SL= 0.01%
REMOVE AND REPLACE EXISTING CATCH BASIN 12"R.C.P. L=27' INV.22.92 SL= 0.000%
REMOVE AND REPLACE EXISTING CATCH BASIN 12"R.C.P. L=22' INV.24.24 SL= 0.000%
12" CMP
18" CMP

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

4	RECORD DRAWING EM	8/94				BHJ	8/93
3	ADDED DRAINAGE EM	5/93	BHJ	LPR		BHJ	5/92
2	GENERAL REVISION BAJ	5/92	RBJ			JAH	5/91
1	APPLIED DRAINAGE SWALE EG =970± WM	5/91	JAH	RBT		BHJ	7/88
0	ISSUED FOR APPROVAL EGA	7/88	JAH	JOE		APPROVED	DATE
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER			

PROJECT SURVEYOR: John Hodgson — APPROVED: Richard N. Jones

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ADAMS AVENUE

(MANHOLE NO.37)-(MANHOLE NO.40)

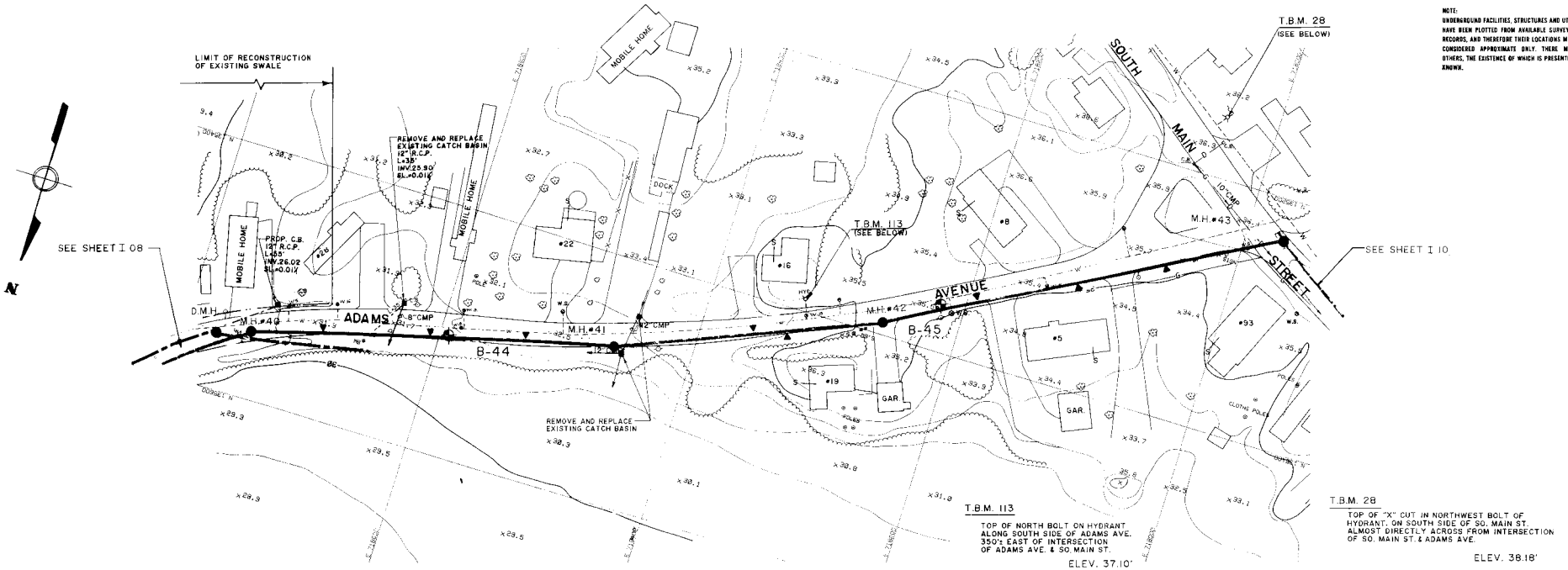
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 08 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



T.B.M. 113

TOP OF NORTH BOLT ON HYDRANT ALONG SOUTH SIDE OF ADAMS AVE. 350'± EAST OF INTERSECTION OF ADAMS AVE. & SO. MAIN ST.

ELEV. 37.10'

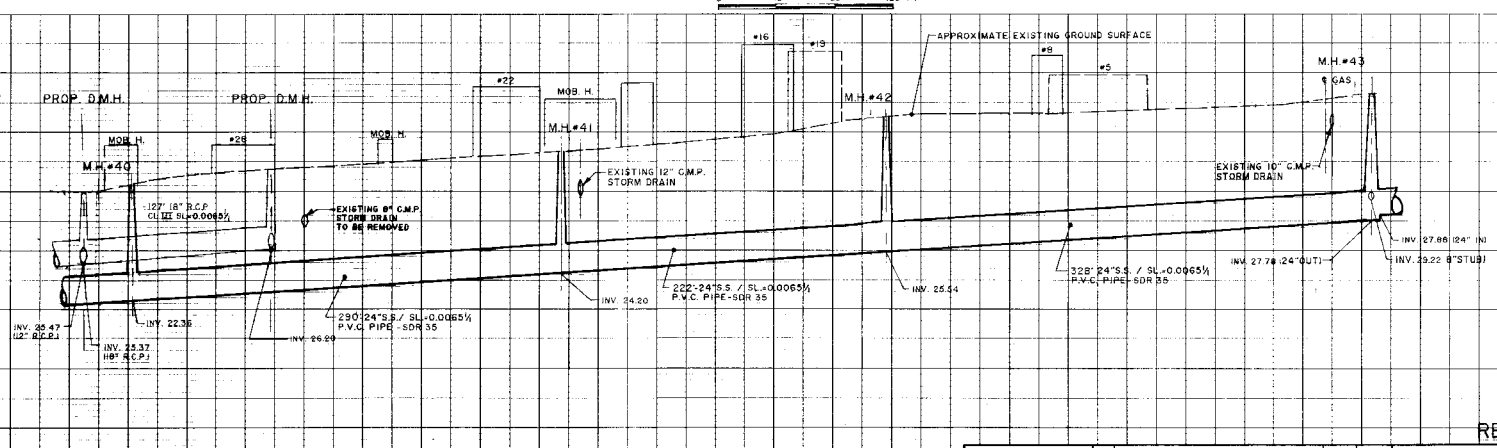
T.B.M. 28

TOP OF "X" CUT IN NORTHWEST BOLT OF HYDRANT, ON SOUTH SIDE OF SO. MAIN ST. ALMOST DIRECTLY ACROSS FROM INTERSECTION OF SO. MAIN ST. & ADAMS AVE.

ELEV. 38.18'

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ADAMS AVENUE AT SOUTH MAIN STREET

(MANHOLE NO.40)-(MANHOLE NO.43)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	EM	6/94				
2	ADDED DRAINAGE	EM	6/93	BHJ	LPR	BHJ	6/93
1	ADDED DRAINAGE SWALES - STA 0+70'S	VJM	5/91	JAH	RBT	JAH	5/91
0	ISSUED FOR APPROVAL	STAFF	01/91	JAH	JJE	BHJ	10/90

PROJECT SUPERVISOR: [signature] APPROVED: [signature]

Jones & Beach / Stearns & Wheler

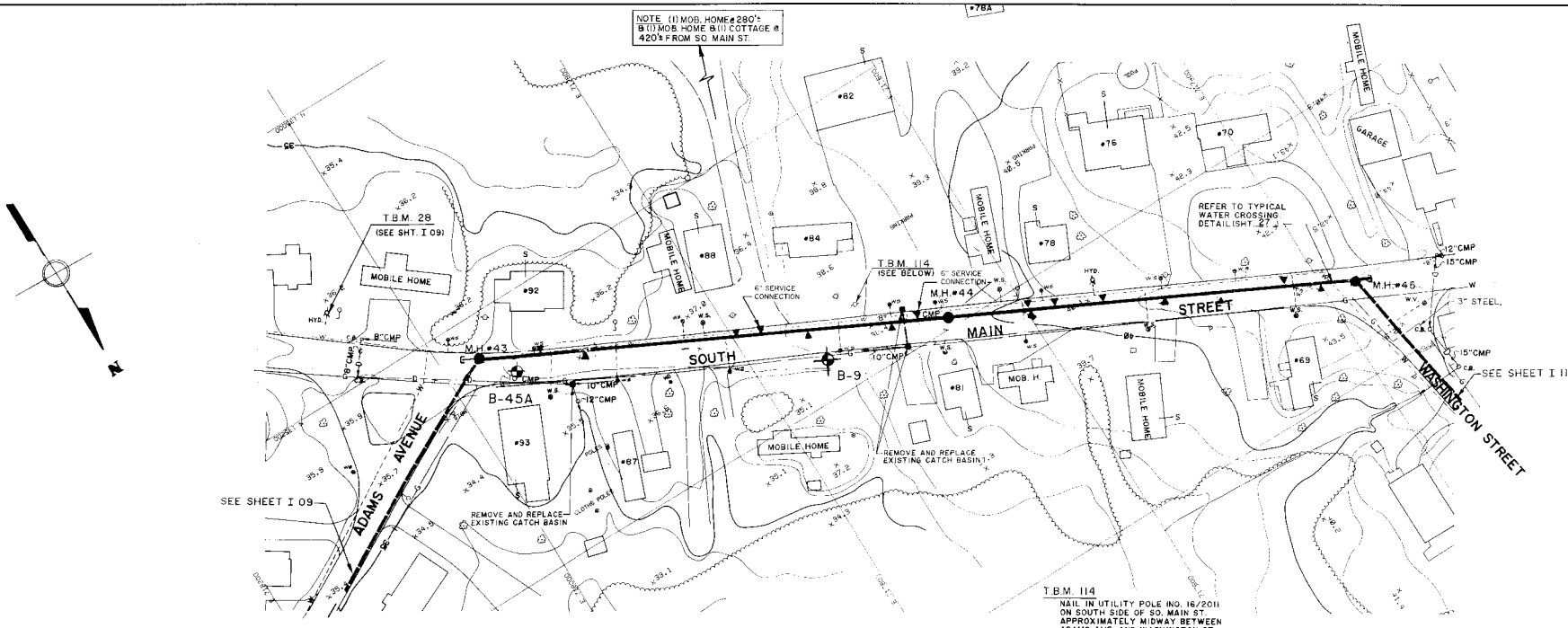
JOINT VENTURE – CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 09 OF 29

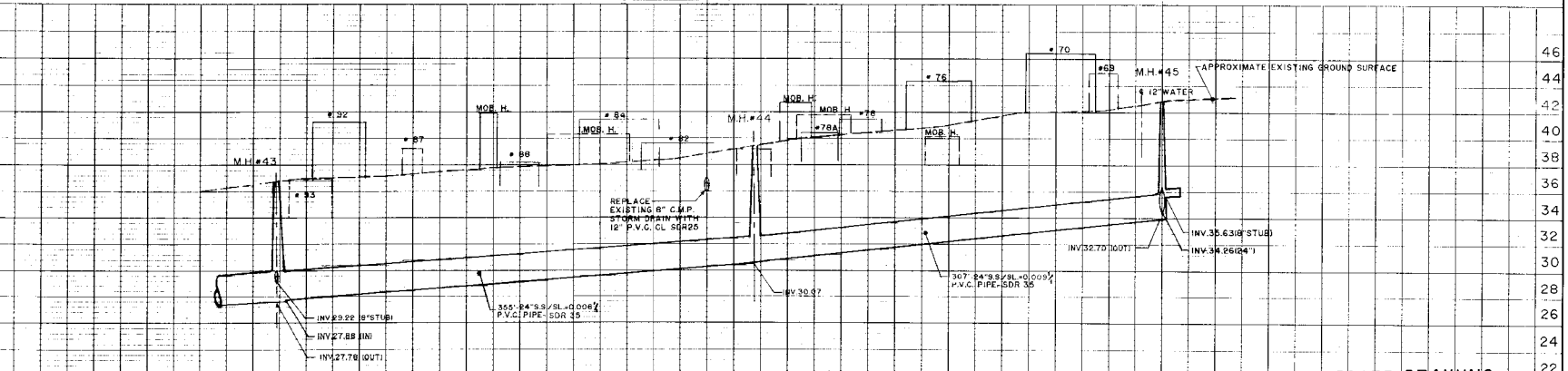
NOTE (1) MOB. HOME @ 280'±
& (1) MOB. HOME & (1) COTTAGE @
420'± FROM SO. MAIN ST.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



T.B.M. 114
NAIL IN UTILITY POLE (NO. 16/201) ON SOUTH SIDE OF SO. MAIN ST. APPROXIMATELY MIDWAY BETWEEN ADAMS AVE. AND WASHINGTON ST. INTERSECTIONS
ELEV. 40.78'

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

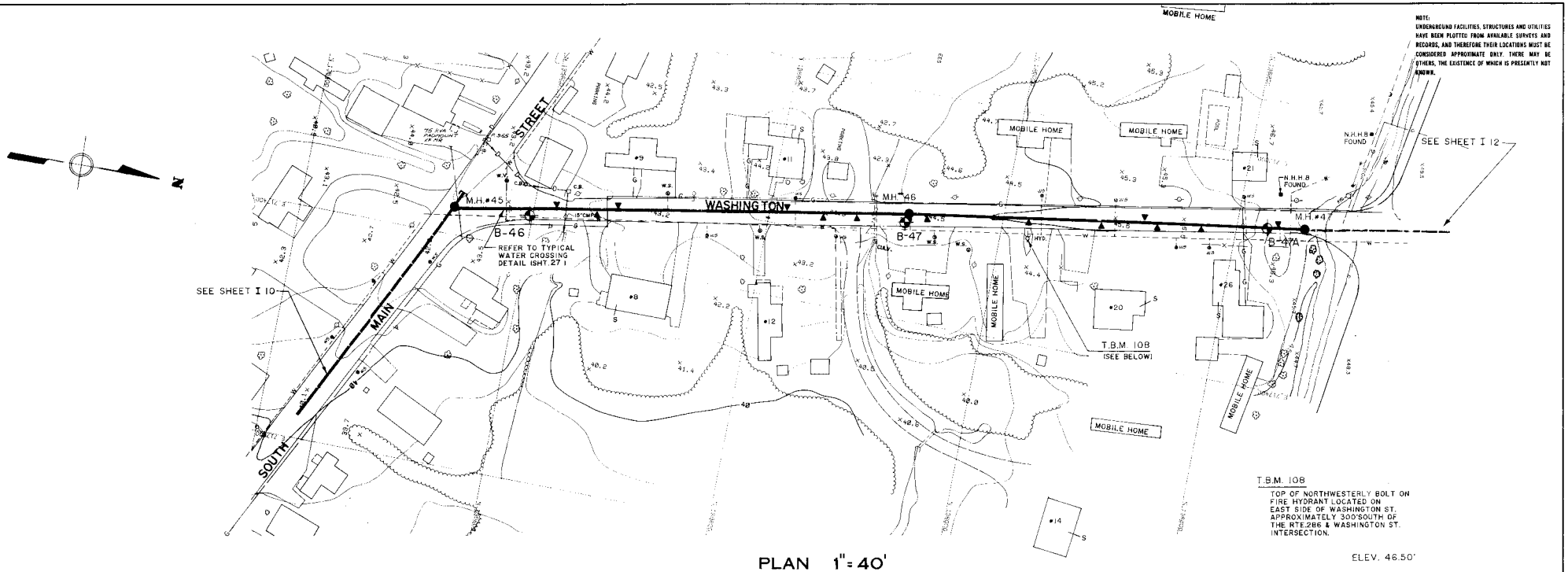
2	RECORD DRAWING	EM	8/94			BHJ	3/92
1	GENERAL REVISIONS	RAJ	3/92	JAH			
0	ISSUED FOR	APPROVAL				BHJ	9/91
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER		APPROVED	DATE

PROJECT SUPERVISOR: Harold Hagopian
APPROVED: Bruce H. Jones

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
SOUTH MAIN STREET FROM ADAMS AVENUE TO WASHINGTON STREET
(MANHOLE NO.43)-(MANHOLE NO.45)

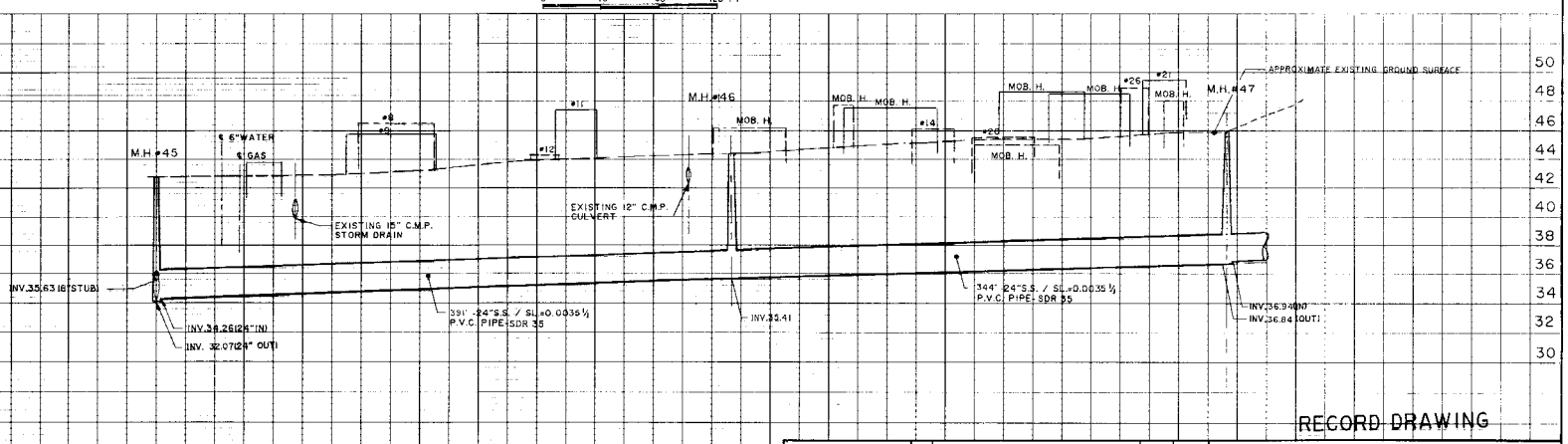
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 10 OF 29


NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
N
WASHINGTON STREET
SOUTH MAIN STREET
M.H.#45
M.H.#46
M.H.#47
B-46
B-47
B-47A
REFER TO TYPICAL WATER CROSSING DETAIL (SHT. 27)
SEE SHEET I 10
SEE SHEET I 12
MOBILE HOME
T.B.M. 108
(SEE BELOW)
N.H.H.B. FOUND
T.B.M. 108
TOP OF NORTHWESTERLY BOLT ON FIRE HYDRANT LOCATED ON EAST SIDE OF WASHINGTON ST. APPROXIMATELY 300' SOUTH OF THE RTE. 286 & WASHINGTON ST. INTERSECTION.
ELEV. 46.50'

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

2	RECORD DRAWING	EM	8/94				
1	GENERAL REVISIONS	BAJ	1/92	JAH		BHJ	3/92
0	ISSUED FOR APPROVAL	RHG	10/90	JAH	JOE	BHJ	7/90
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WASHINGTON ST. AT SOUTH MAIN ST.

(MANHOLE NO.45)-(MANHOLE NO.47)

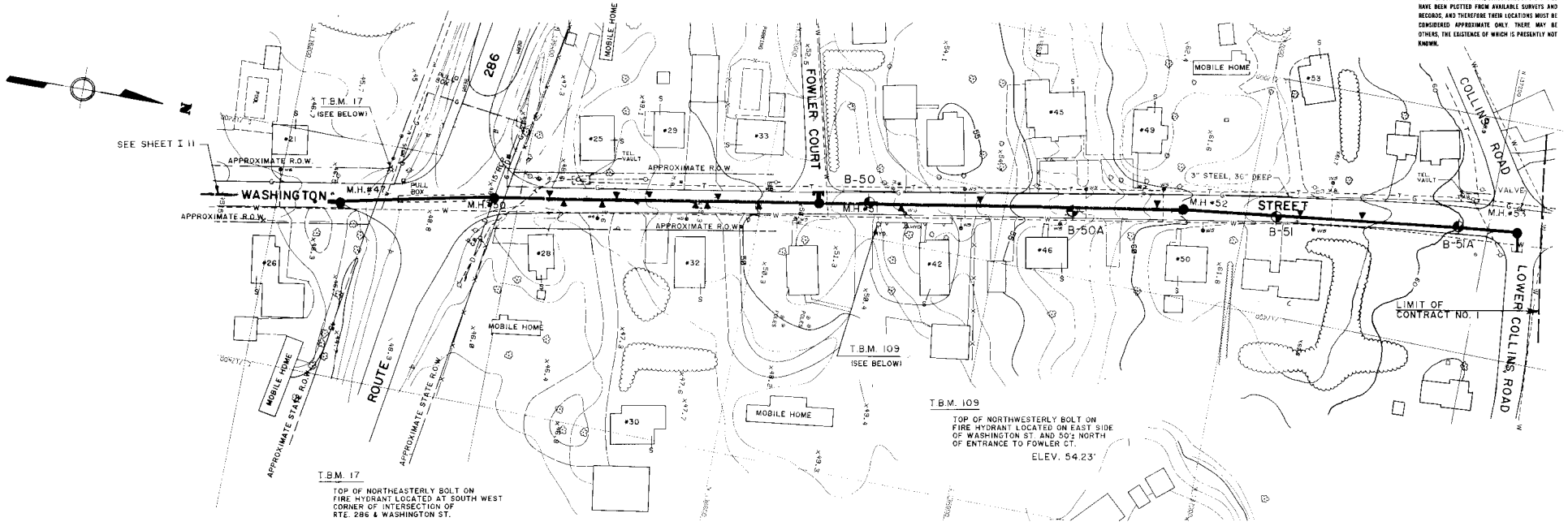
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

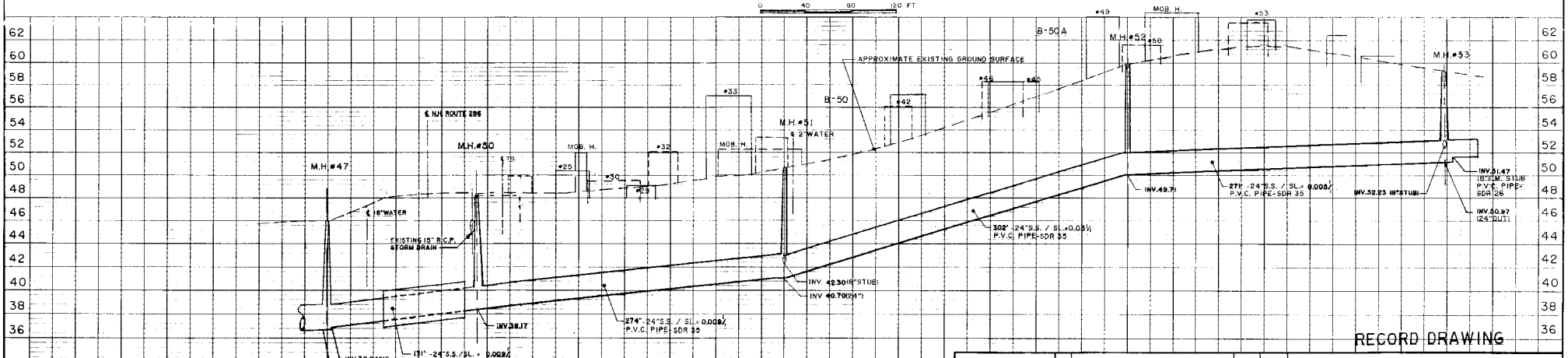
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 11 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	BY	DATE
3	RECORD DRAWING EM 8/94		
2	REVISED SEWER CROSSING OF RT 286 BAJ 3/92 JAH	BHJ	3/92
1	ADDED TEL VAULT & MAIN BAJ 4/91 RBJ	RBJ	3/92
0	ISSUED FOR APPROVAL LINE 2/91 JAH SDR	BHJ	9/89

ISSUE NO. | DRAWN | DATE | CHECKED | DESIGNER | APPROVED | DATE

PROJECT SUPERVISOR: John Cullen | APPROVED: Brad Beach

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

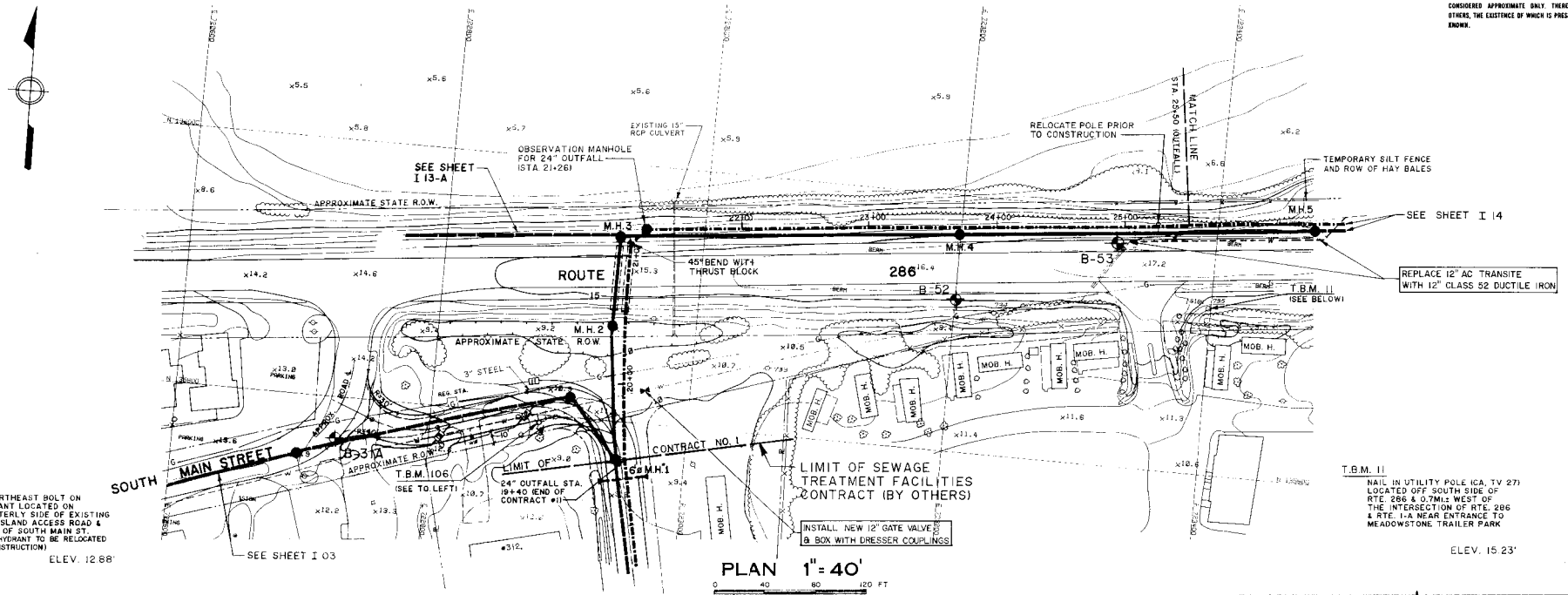
WASHINGTON STREET AT FOWLER COURT

(MANHOLE NO.47)-(MANHOLE NO.53)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

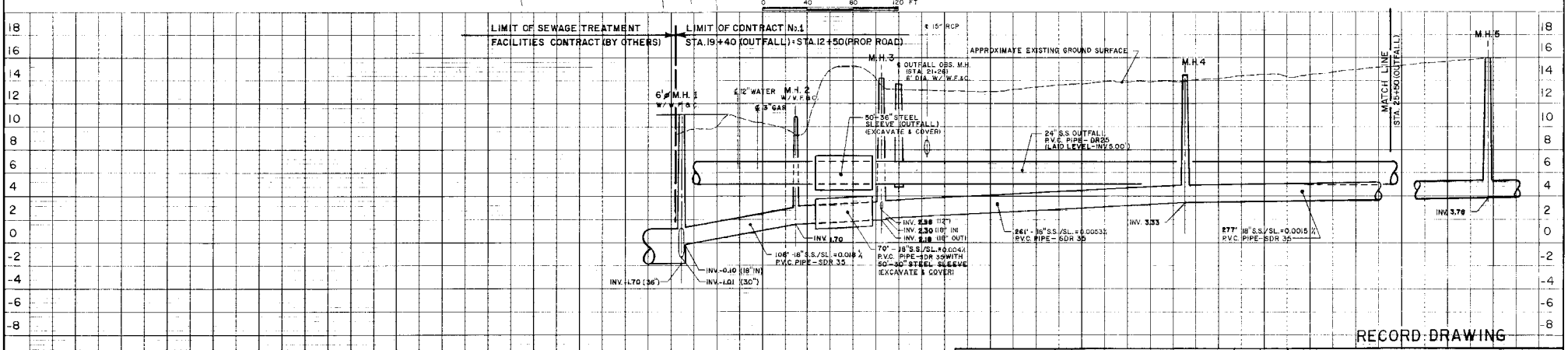
JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 12 OF 29

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



T.B.M. 106
TOP OF NORTHEAST BOLT ON FIRE HYDRANT LOCATED ON SOUTHWESTERLY SIDE OF EXISTING WRIGHTS ISLAND ACCESS ROAD & 150'± EAST OF SOUTH MAIN ST. (CAUTION - HYDRANT TO BE RELOCATED DURING CONSTRUCTION)
ELEV. 12.88'

T.B.M. II
NAIL IN UTILITY POLE (CA, TV 27) LOCATED OFF SOUTH SIDE OF RTE. 286 & 0.7MI.± WEST OF THE INTERSECTION OF RTE. 286 & RTE. 1-A NEAR ENTRANCE TO MEADOWSTONE TRAILER PARK
ELEV. 15.23'


LIMIT OF SEWAGE TREATMENT FACILITIES CONTRACT (BY OTHERS)
LIMIT OF CONTRACT No.1
STA. 19+40 (OUTFALL) - STA. 12+50 (PROP. ROAD)
℄ 15" RCP
APPROXIMATE EXISTING GROUND SURFACE
M.H.3
℄ OUTFALL OBS. M.H. (STA. 21+26) 5' DIA. W/ W.F.S.C.
M.H.4
M.H.5
6' ℄ M.H. 1 W/ W.F.S.C.
℄ 12" WATER
M.H. 2 W/ W.F.S.C.
℄ 3" GAS
50'-36" STEEL SLEEVE (OUTFALL) (EXCAVATE & COVER)
24" S.S. OUTFALL P.V.C. PIPE - DR25 (LAID LEVEL - INV. 5.00')
MATCH LINE STA. 25+50 (OUTFALL)
INV. 3.78
INV. 2.36 (12")
INV. 2.30 (18" IN)
INV. 2.18 (18" OUT)
INV. 1.70
INV. 3.33
261' - 18" S.S./SL.=0.0053 P.V.C. PIPE - SDR 35
277' - 18" S.S./SL.=0.0015 P.V.C. PIPE - SDR 35
106' - 18" S.S./SL.=0.0184 P.V.C. PIPE - SDR 35
70' - 18" S.S./SL.=0.0044 P.V.C. PIPE - SDR 35 WITH 50'-30" STEEL SLEEVE (EXCAVATE & COVER)
INV. -0.10 (18" IN)
INV. -1.01 (30")
INV. -1.70 (36")
18 16 14 12 10 8 6 4 2 0 -2 -4 -6 -8

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	EM	8/94				
1	REVISED M.H.# 3	WM	8/92	RBJ	RBJ	BHJ	8/92
0	ISSUED FOR APPROVAL	RMS	10/92	TAH	JOE	BHJ	11/92

PROJECT SUPERVISOR: [signature] APPROVED: [signature]

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

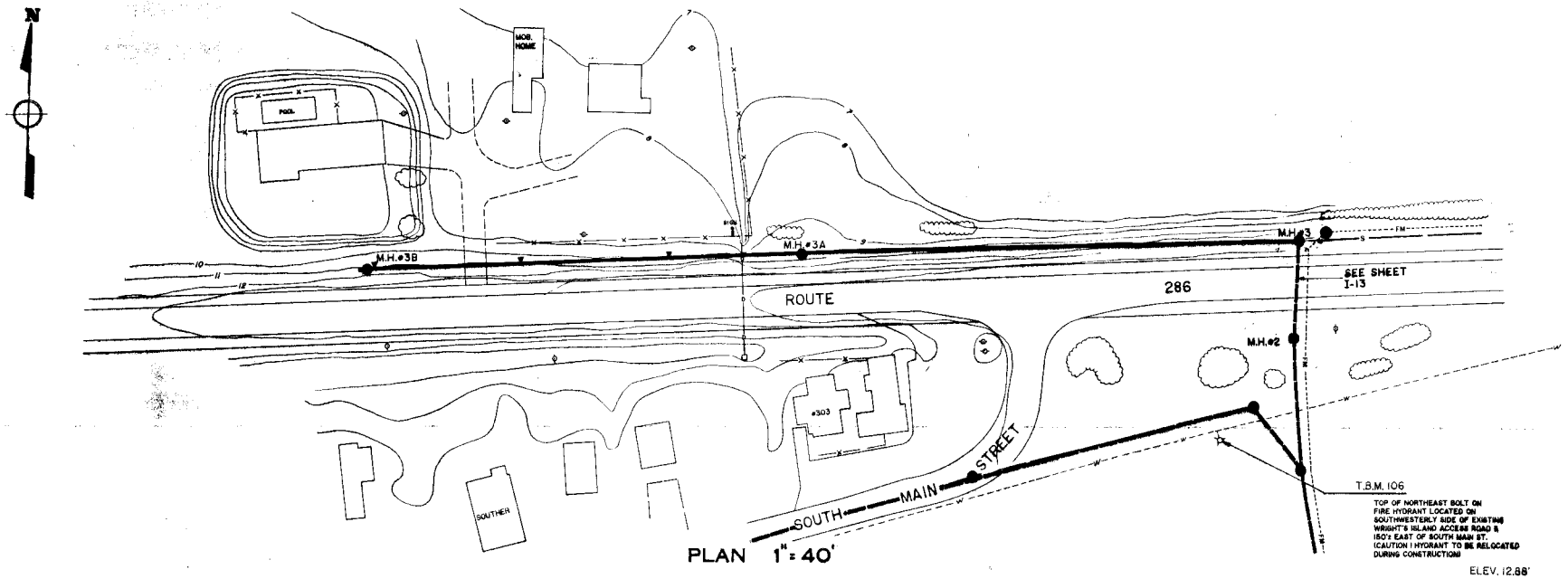
ROUTE 286 & SOUTH MAIN STREET
(MANHOLE NO. 1) - (MANHOLE NO. 5)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

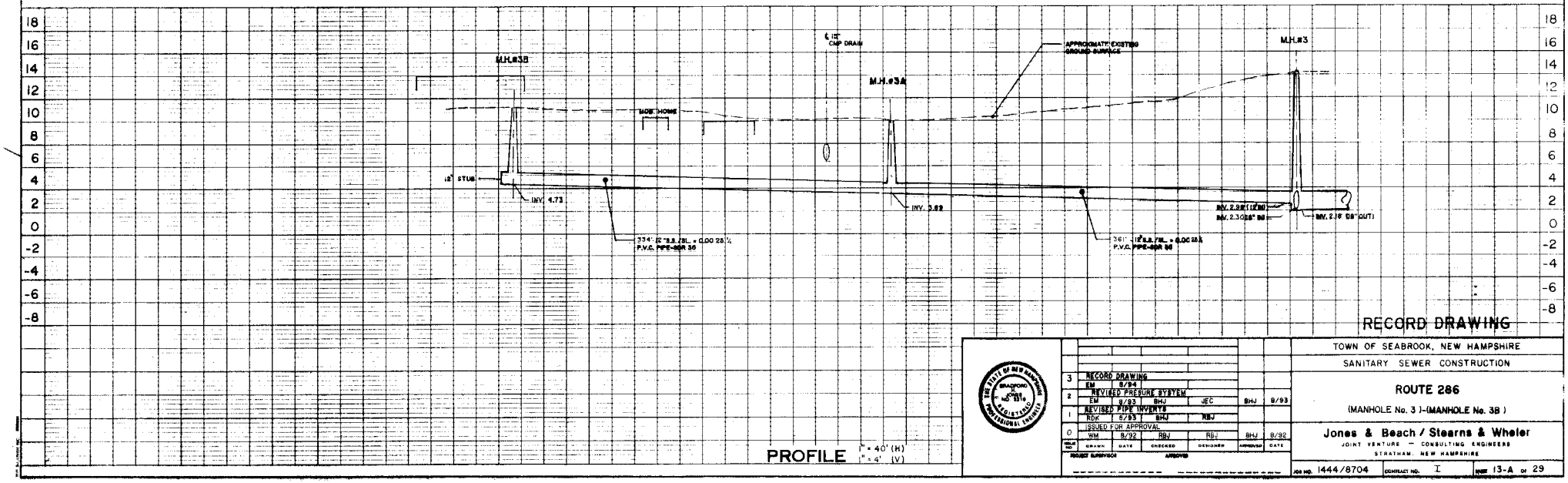
JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 13 OF 29

H.H. SULLIVAN, INC. 806847

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

3	RECORD DRAWING	EM	8/94				
2	REVISED PRESURE SYSTEM	EM	8/93	BHJ	JEC	BHJ	8/93
1	REVISED PIPE INVERTS	RDK	5/93	BHJ	RBJ		
0	ISSUED FOR APPROVAL	WM	8/92	RBJ	RBJ	BHJ	8/92
		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 286

(MANHOLE No. 3)-(MANHOLE No. 38)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 13-A OF 29

NOTE:
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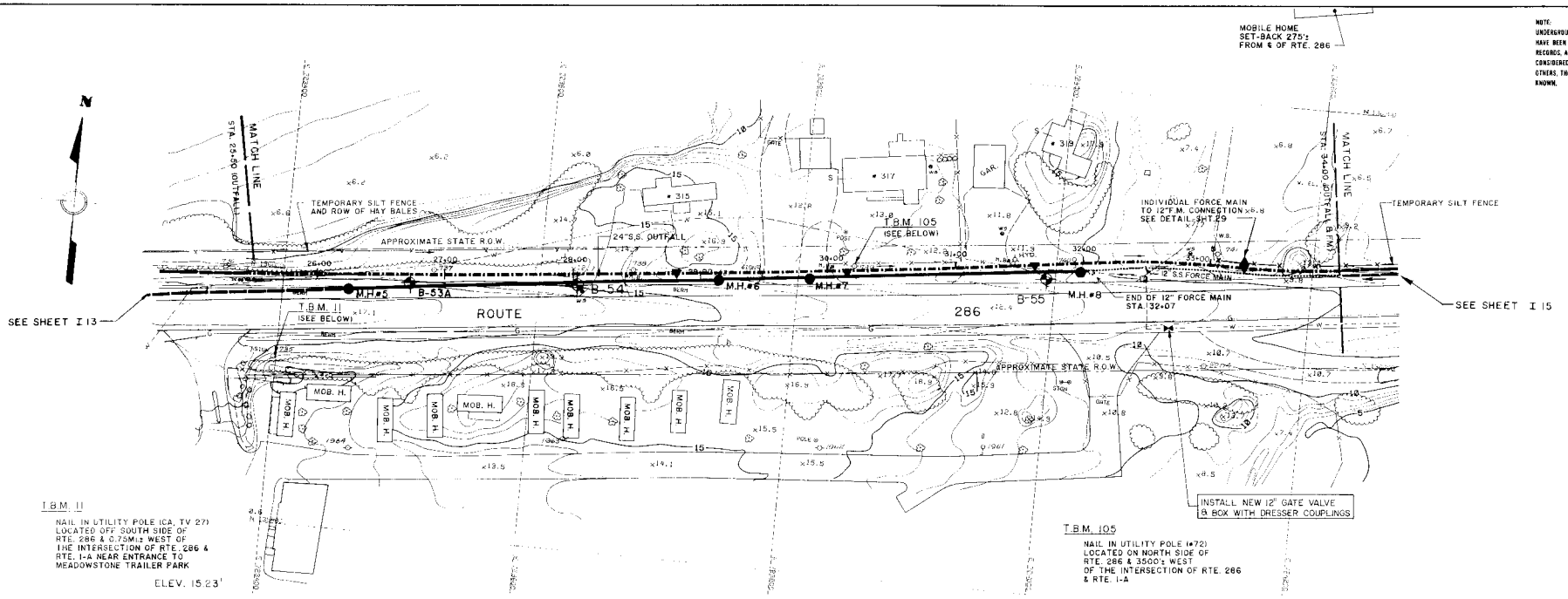
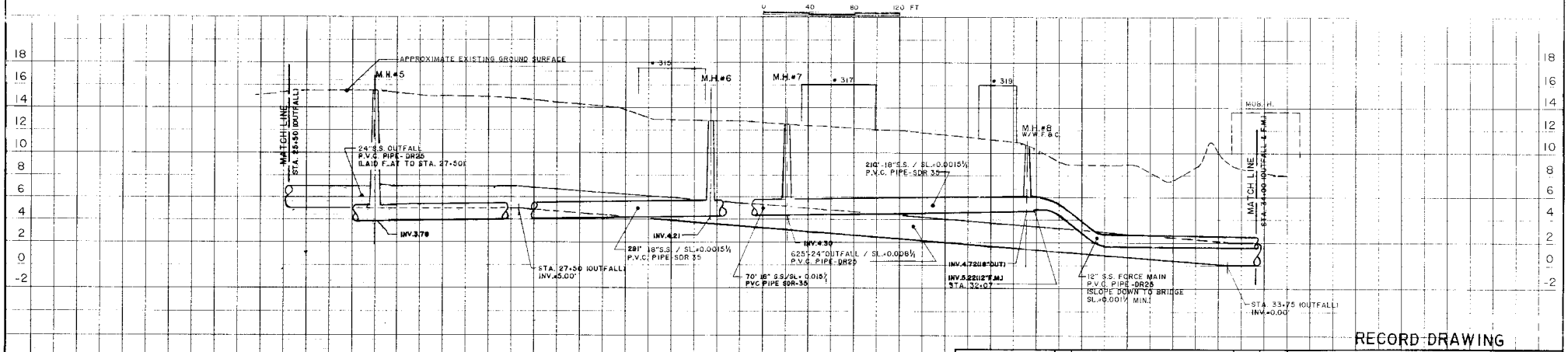


T.B.M. 11
NAIL IN UTILITY POLE (CA, TV 27) LOCATED OFF SOUTH SIDE OF RTE. 286 & 0.75M± WEST OF THE INTERSECTION OF RTE. 286 & RTE. 1-A NEAR ENTRANCE TO MEADOWSTONE TRAILER PARK
ELEV. 15.23'

T.B.M. 105
NAIL IN UTILITY POLE (#72) LOCATED ON NORTH SIDE OF RTE. 286 & 3500'± WEST OF THE INTERSECTION OF RTE. 286 & RTE. 1-A
ELEV. 14.47

PLAN 1" = 40'

0 40 80 120 FT


APPROXIMATE EXISTING GROUND SURFACE
M.H.#5
M.H.#6
M.H.#7
M.H.#8 W.W.F.&C.
MOB. H.
MATCH LINE STA. 25+50 (OUTFALL)
MATCH LINE STA. 34+00 (OUTFALL & F.M.)
24"S.S. OUTFALL P.V.C. PIPE - DR25 (LAID FLAT TO STA. 27+50)
INV.3.78
STA. 27+50 (OUTFALL) INV.4.00'
281' 18"S.S. / SL.=0.0015½ P.V.C. PIPE-SDR 35
(INV.4.21)
70' 18" S.S./SL.=0.015½ PVC PIPE SDR-35
INV.4.30
625'-24"OUTFALL / SL.=0.008½
210' 18"S.S. / SL.=0.0015½ P.V.C. PIPE-SDR 35
INV.4.72(@*OUT)
INV.5.22(@12"FM)
STA. 32+07
12" S.S. FORCE MAIN P.V.C. PIPE -DR25 (SLOPE DOWN TO BRIDGE SL.=0.001½ MIN.)
STA. 33+75 (OUTFALL) INV.=0.00
18 16 14 12 10 8 6 4 2 0 -2

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

1	RECORD DRAWING EM 8/94					
0	ISSUED FOR APPROVAL KTS 7/26	TAA	TEE	BNJ 9/93		
ISSUE NO.	DRAWN DATE	CHECKED	DESIGNER	APPROVED DATE		

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
ROUTE 286
(MANHOLE NO. 5) ~ (MANHOLE NO. 8)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 14 OF 29

HN SULLIVAN, INC. 806387

T.B.M. 10

NAIL IN UTILITY POLE (743.76 NET&T) ON NORTHERLY SIDE OF RTE. 286 & LOCATED 0.60M± WEST OF THE INTERSECTION OF RTE. 286 & RTE. I-A

ELEV. 7.24'

T.B.M. 115

NAIL IN UTILITY POLE (79$\frac{}{748}$) ON NORTHERLY SIDE OF RTE. 286 & LOCATED 700± WEST OF WESTERLY END OF THE BLACKWATER RIVER BRIDGE

ELEV. 7.23'

NOTE:
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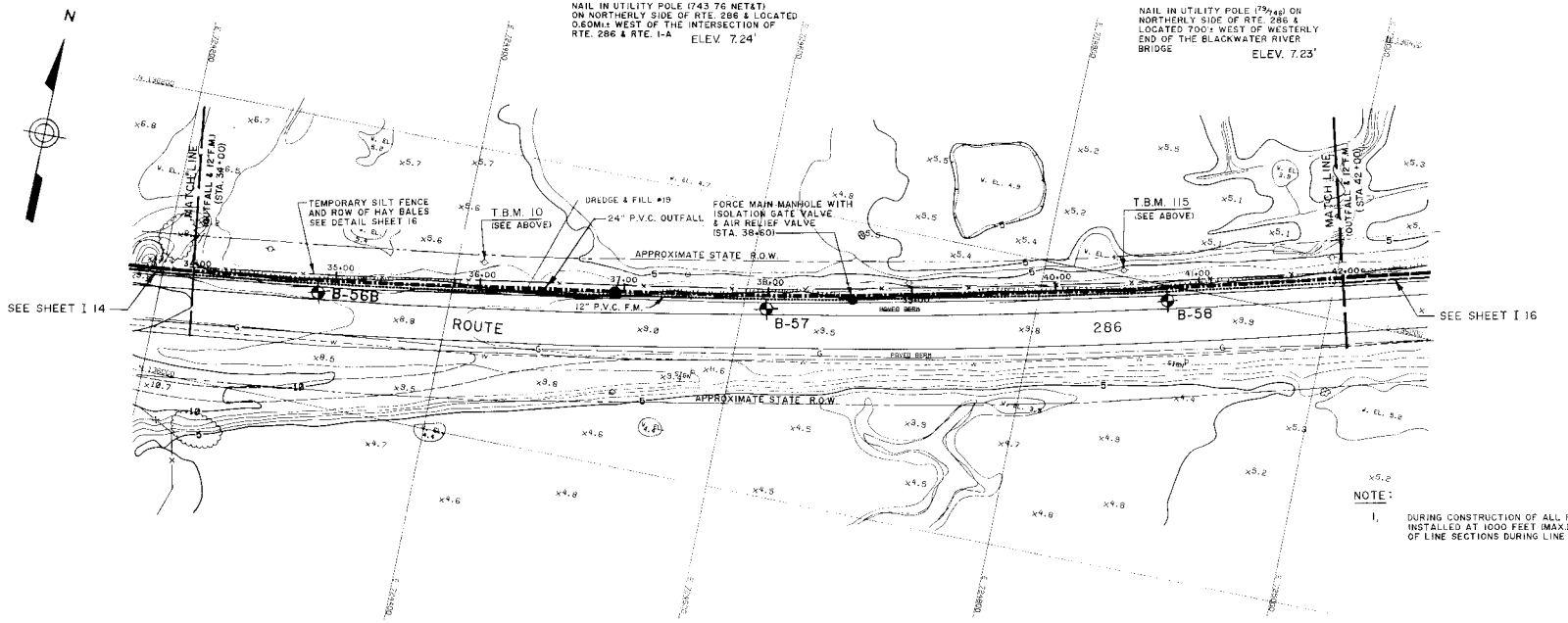
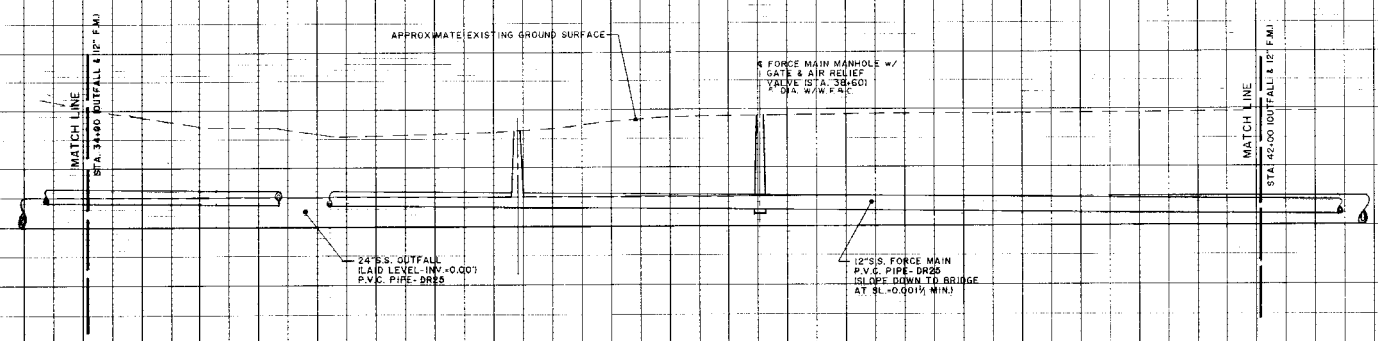


NOTE:

1. DURING CONSTRUCTION OF ALL FORCE MAINS, GATE VALVES SHALL BE INSTALLED AT 1000 FEET (MAX.) INTERVALS TO ENABLE ISOLATION OF LINE SECTIONS DURING LINE TESTING PROCEDURE.

PLAN 1"= 40'

0 40 80 120 FT


MATCH LINE (STA. 34+00 (OUTFALL & 12" F.M.)
APPROXIMATE EXISTING GROUND SURFACE
FORCE MAIN MANHOLE w/ GATE & AIR RELIEF VALVE (STA. 38+60) 4' DIA. W/W.F.4.C.
MATCH LINE (STA 42+00 (OUTFALL & 12" F.M.)
24" S.S. OUTFALL (LAID LEVEL - INV.=0.00') P.V.C. PIPE - DR35
12" S.S. FORCE MAIN P.V.C. PIPE - DR26 (SLOPE DOWN TO BRIDGE AT SL.=0.001½ MIN.)
10
8
6
4
2
0
-2
-4
-6

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	REVISION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	REVISE GRADE FOR AS BUILT DRAWING	DT	6/94	BHJ	BHJ	BHJ	6/94
0	ISSUED FOR APPROVAL	RMG	10/93	JAH	TGE	BHJ	11/93

PROJECT SUPERVISOR: [signature]

APPROVED: [signature]

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 286

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. I SHEET 15 OF 29

H.H. SULLIVAN, INC. 896367

T.B.M. 9

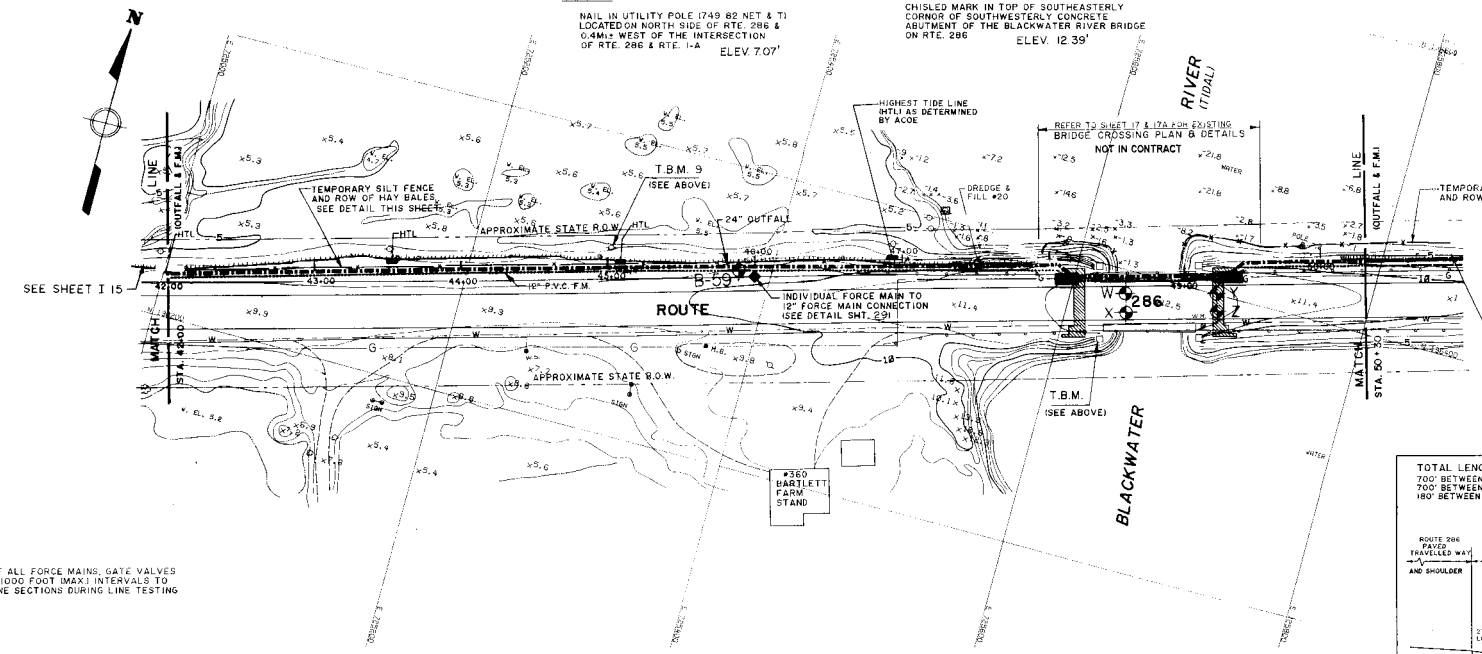
NAIL IN UTILITY POLE (749 82 NET & T) LOCATED ON NORTH SIDE OF RTE. 286 & 0.4MI.± WEST OF THE INTERSECTION OF RTE. 286 & RTE. 1-A ELEV. 7.07'

T.B.M.

CHISLED MARK IN TOP OF SOUTHEASTERLY CORNOR OF SOUTHWESTERLY CONCRETE ABUTMENT OF THE BLACKWATER RIVER BRIDGE ON RTE. 286 ELEV. 12.39'

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

NOTE:
BORINGS W, X, Y, & Z BY RAYMOND CONC. PILE CO. GOW. DIV. SEPT. 17, 1946.

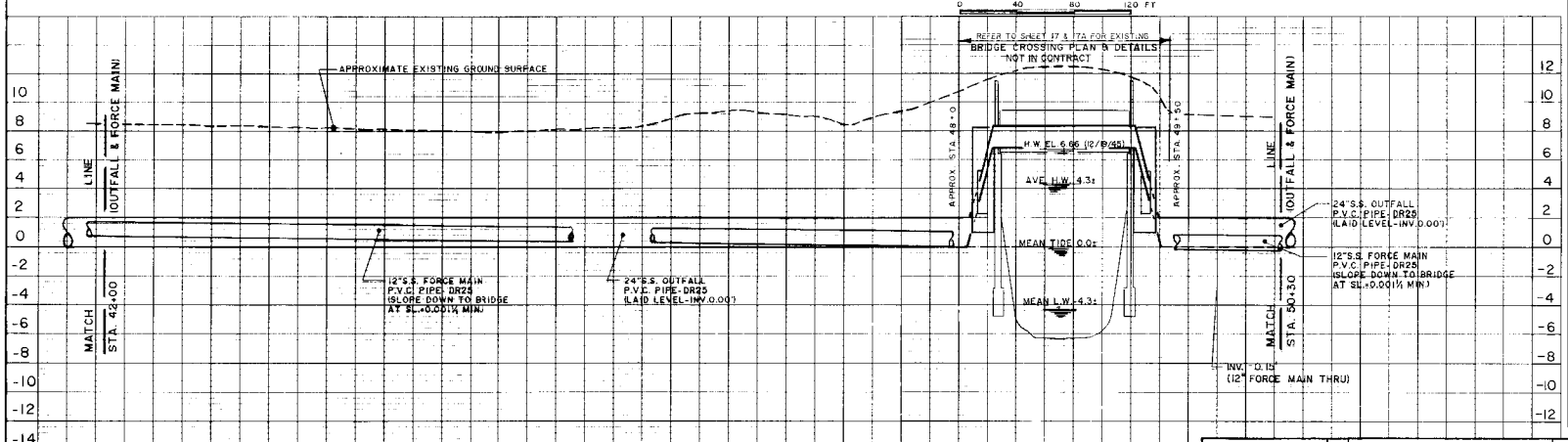

N
TEMPORARY SILT FENCE AND ROW OF HAY BALES SEE DETAIL THIS SHEET
APPROXIMATE STATE R.O.W.
T.B.M. 9 (SEE ABOVE)
24" OUTFALL
HIGHEST TIDE LINE (HTL) AS DETERMINED BY ACOE
REFER TO SHEET 17 & 17A FOR EXISTING BRIDGE CROSSING PLAN & DETAILS NOT IN CONTRACT
DREDGE & FILL #20
TEMPORARY SILT FENCE AND ROW OF HAY BALES
SEE SHEET I 15
SEE SHEET I 18
MATCH LINE (OUTFALL & F.M.)
MATCH STA. 42+00
MATCH STA. 50+30
12" P.V.C. F.M.
B-59
ROUTE 286
INDIVIDUAL FORCE MAIN TO 12" FORCE MAIN CONNECTION (SEE DETAIL SHT. 29)
APPROXIMATE STATE R.O.W.
T.B.M. (SEE ABOVE)
#360 BARTLETT FARM STAND
RIVER (TIDAL)
BLACKWATER

NOTE:

DURING CONSTRUCTION OF ALL FORCE MAINS, GATE VALVES SHALL BE INSTALLED AT 1000 FOOT (MAX.) INTERVALS TO ENABLE ISOLATION OF LINE SECTIONS DURING LINE TESTING PROCEDURE.

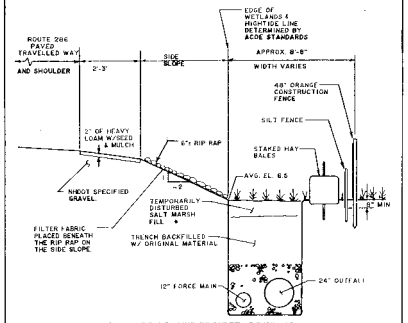
PLAN 1" = 40'

0 40 80 120 FT


APPROXIMATE EXISTING GROUND SURFACE
REFER TO SHEET 17 & 17A FOR EXISTING BRIDGE CROSSING PLAN & DETAILS NOT IN CONTRACT
H.W. EL. 6.66 (12/89)
AVE. H.W. 4.3±
MEAN TIDE 0.0±
MEAN L.W. -4.3±
APPROX. STA. 49+00
APPROX. STA. 49+50
MATCH LINE (OUTFALL & FORCE MAIN)
MATCH STA. 42+00
MATCH STA. 50+30
12"S.S. FORCE MAIN P.V.C. PIPE-DR25 (SLOPE DOWN TO BRIDGE AT SL.+0.001¼ MIN.)
24"S.S. OUTFALL P.V.C. PIPE-DR25 (LAID LEVEL-INV.0.00')
24"S.S. OUTFALL P.V.C. PIPE-DR25 (SLOPE DOWN TO BRIDGE AT SL.+0.001¼ MIN.)
12"S.S. FORCE MAIN P.V.C. PIPE-DR25 (SLOPE DOWN TO BRIDGE AT SL.+0.001¼ MIN.)
INV. -0.15' (12" FORCE MAIN THRU)

PROFILE 1" = 40' (H) 1" = 4' (V)

TOTAL LENGTH OF PROTECTION/RESTORATION = 1580 FT
700' BETWEEN STA 34+00 AND STA 41+00 (SHT I-15)
700' BETWEEN STA 41+00 AND BLACKWATER BRIDGE (SHT I-16)
180' BETWEEN STA 54+75 AND STA 56+55 (SHT I-18)


ROUTE 286 PAVED TRAVELLED WAY AND SHOULDER
EDGE OF WETLANDS & HIGHTIDE LINE DETERMINED BY ACOE STANDARDS
APPROX. 8'-8"
SIDE SLOPE
WIDTH VARIES
48" ORANGE CONSTRUCTION FENCE
SILT FENCE
2" OF HEAVY LOAM W/SEED & MULCH
6"± RIP RAP
STAKED HAY BALES
AVG. EL. 6.5
KNOT SPECIFIED GRAVEL
TEMPORARILY DISTURBED SALT MARSH FILL
FILTER FABRIC PLACED BENEATH THE RIP RAP ON THE SIDE SLOPE
TRENCH BACKFILLED W/ ORIGINAL MATERIAL
12" FORCE MAIN
24" OUTFALL

SEABROOK SEWER PROJECT - ROUTE 286

1. Install erosion control measures per plan.
2. The top 8 inches of the salt marsh within the trench excavation limits will be excavated and stockpiled. The stockpile will be kept moist and replaced within one weeks time.
3. The remaining excavation and installation will be performed with typical construction methods, and special care will be taken not to impact the salt marsh.
4. Leave the backfill approximately 8 inches below finish grade.
5. Reinstall the top 8 inches of material that was saved and stockpiled in paragraph 2 above. The grade must match existing ground to assure proper growth. The area shall be stabilized with jute mat.
6. The removal of the jute mat and the regrading along with the reinstallation of the jute mat will be required as needed to achieve the proper grade and to compensate for settlement.
7. The Engineer will be the sole judge of the acceptable methods of working in this area.

SALT MARSH PROTECTION/RESTORATION
TYPICAL SECTION AT ROUTE 286

SCALE: 1/4" = 1'-0"

RECORD DRAWING

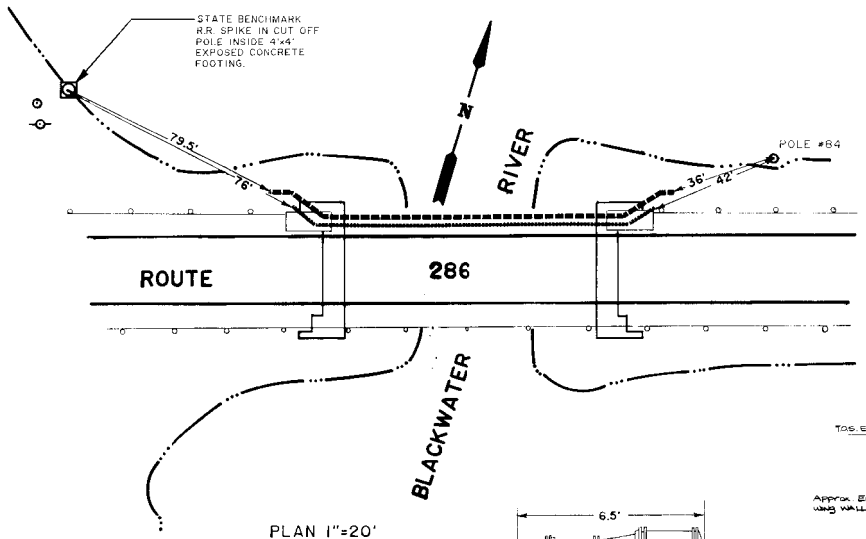
3	ADDED REVISED SECTION ON SALT MARSH					JAH	10/90
2	RAI 10/90 JAH REMOVE RIVER XING FROM CONTRACT					JAH	10/90
1	REVISED RIVER CROSSING JOB 1/1787					JAH	12/89
0	ISSUED FOR APPROVAL					DHT	11/89
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE	
	CJB	10/8	JAH	JOE	DHT	11/89	

PROJECT SUPERVISOR: APPROVED

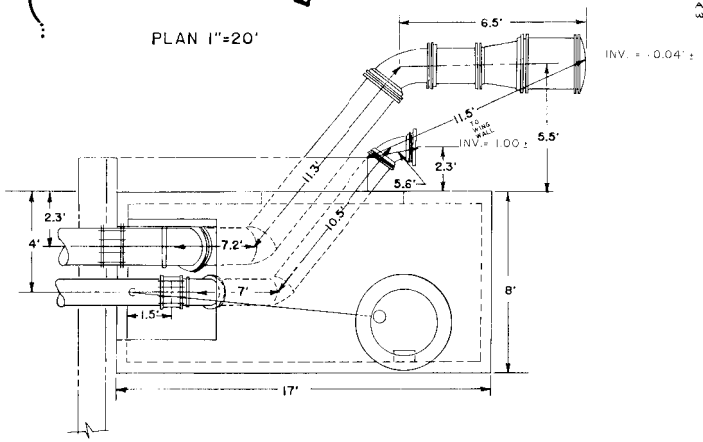
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
ROUTE 286 & BLACKWATER RIVER BRIDGE

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. I SHEET 16 OF 29

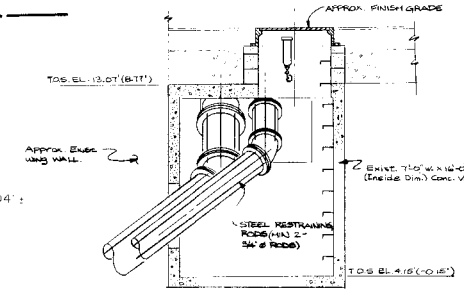


PLAN 1"=20'



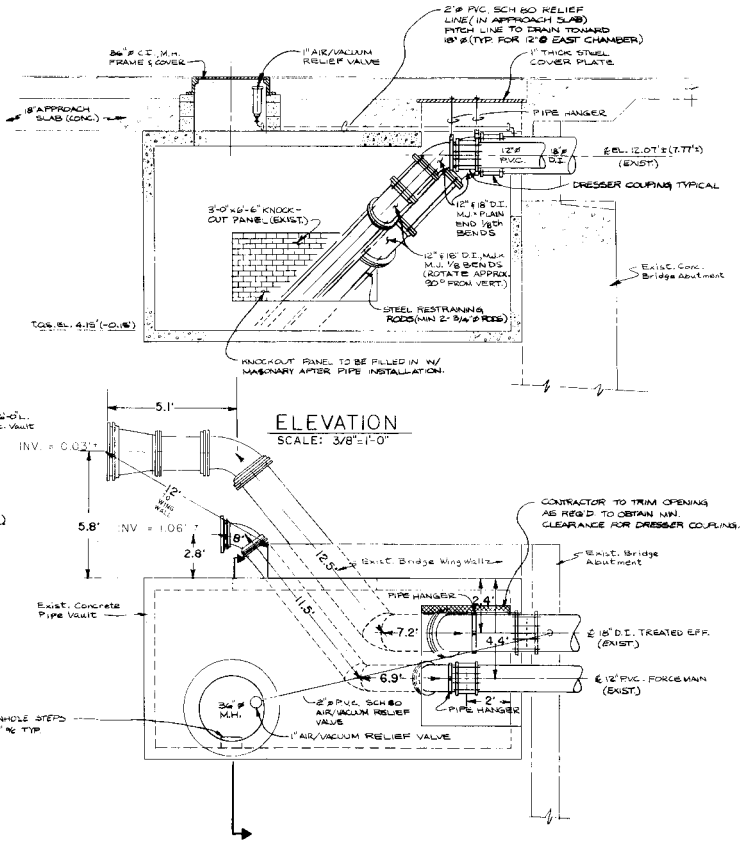
PLAN VIEW EAST SIDE OF BRIDGE

NOT TO SCALE


APPROX. FINISH GRADE
TOS. EL. 12.07'(8.11')
APPROX. ENDS WING WALL
EXIST. 7'-0"W x 12'-0"L. (Inside Dim.) Conc. Vault
STEEL RESTRAINING RODS (MIN 2-3/4"ø RODS)
TOS EL. 4.15'(-0.15')

SECTION A-A

SCALE: 3/8"=1'-0"


2"ø PVC. SCH 80 RELIEF LINE (IN APPROACH SLAB) PITCH LINE TO DRAIN TOWARD 18"ø (TYP. FOR 12"ø EAST CHAMBER)
36"ø C.I. M.H. FRAME & COVER
1" AIR/VACUUM RELIEF VALVE
1" THICK STEEL COVER PLATE
8" APPROACH SLAB (CONC.)
PIPE HANGER
12"ø PVC.
8"ø D.I.
℄ EL. 12.07'± (7.77'±) (EXIST.)
DRESSER COUPLING TYPICAL
3'-0"x6'-6" KNOCK-OUT PANEL (EXIST.)
12" ø 18" D.I. MJ x PLAIN END WITH BENDS
12" ø 18" D.I. MJ x M.J. 1/8 BENDS (ROTATE APPROX. 30° FROM VERT.)
Exist. Conc. Bridge Abutment
TOS. EL. 4.15'(-0.15')
STEEL RESTRAINING RODS (MIN 2-3/4"ø RODS)
KNOCKOUT PANEL TO BE FILLED IN W/ MASONRY AFTER PIPE INSTALLATION.

ELEVATION

SCALE: 3/8"=1'-0"

WEST SIDE OF BRIDGE PLAN VIEW

NOT TO SCALE

NOTE: 1. ELEVATIONS SHOWN ARE BASED ON MEAN LOW WATER AS DERIVED FROM A BENCHMARK LOCATED AT THE SOUTH WESTERLY PART OF THE OLD BRIDGE ABUTMENT (STATE BENCHMARK) WITH AN ELEVATION OF 16.82.

NOTE: ELEVATIONS ON THIS SHEET ARE BASED UPON (2) DATUMS AS INDICATED BELOW:
EL. 4.15'± - BASED UPON MEAN LOW WATER ELEV. ±0.00'
EL. (-0.15')± - BASED UPON MEAN SEA LEVEL ELEV. =0.00'

RECORD DRAWING

RECORD DRAWING

RECORD DRAWING NO.				
RAJ	7/27/90	AH	JAH	7/90

DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
PROJECT SUPERVISOR		APPROVED			

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

RECORD DRAWING

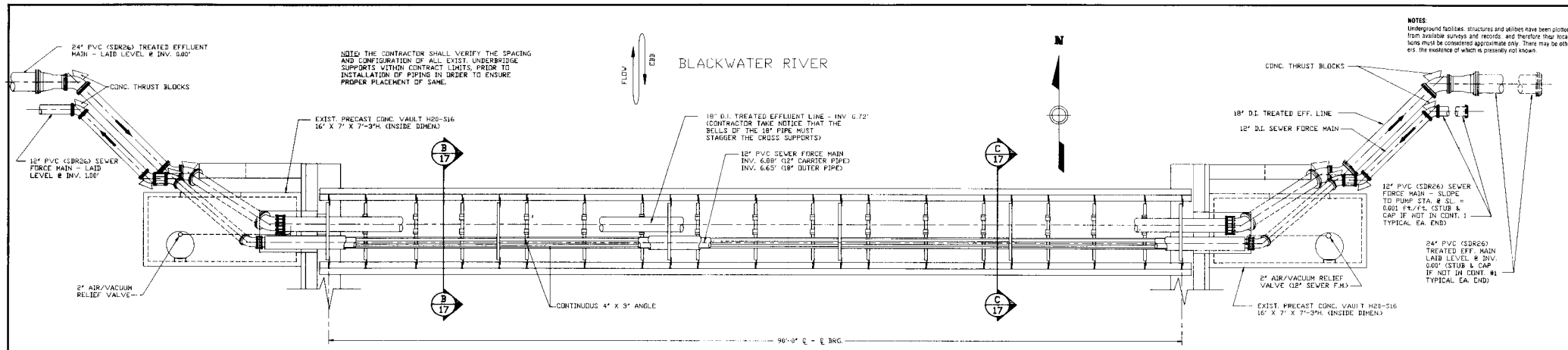
BLACKWATER RIVER SEWER CROSSING

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

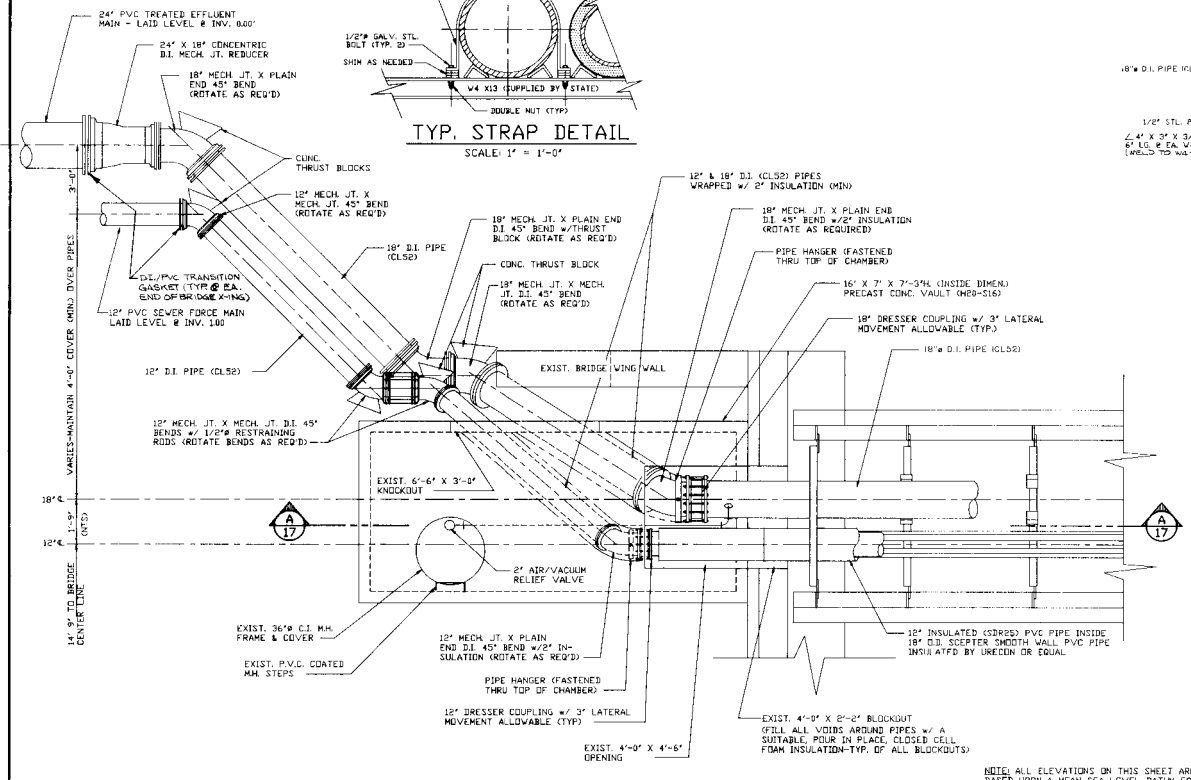
STRATHAM, NEW HAMPSHIRE

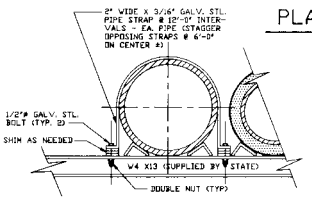
JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 17 OF 29


24" PVC (SDR26) TREATED EFFLUENT MAIN - LAID LEVEL @ INV. 0.00'
CONC. THRUST BLOCKS
12" PVC (SDR26) SEWER FORCE MAIN - LAID LEVEL @ INV. 1.00'
2" AIR/VACUUM RELIEF VALVE
NOTE: THE CONTRACTOR SHALL VERIFY THE SPACING AND CONFIGURATION OF ALL EXIST. UNDERBRIDGE SUPPORTS WITHIN CONTRACT LIMITS, PRIOR TO INSTALLATION OF PIPING IN ORDER TO ENSURE PROPER PLACEMENT OF SAME.
EXIST. PRECAST CONC. VAULT H20-S16 16' X 7' X 7'-3"H. (INSIDE DIMEN.)
B 17
C 17
18" D.I. TREATED EFFLUENT LINE - INV. 0.72' (CONTRACTOR TAKE NOTICE THAT THE BELLS OF THE 18" PIPE MUST STAGGER THE CROSS SUPPORTS)
12" PVC SEWER FORCE MAIN INV. 6.88' (12" CARRIER PIPE) INV. 6.65' (18" OUTER PIPE)
CONTINUOUS 4" X 3" ANGLE
90'-0" ℄ - ℄ BRG.
FLOW
BLACKWATER RIVER
N
NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.
CONC. THRUST BLOCKS
18" D.I. TREATED EFF. LINE
12" D.I. SEWER FORCE MAIN
12" PVC (SDR26) SEWER FORCE MAIN - SLOPE TO PUMP STA. @ SL. = 0.001 ft./ft.; (STUB & CAP IF NOT IN CONT. 1 TYPICAL EA. END)
24" PVC (SDR26) TREATED EFF. MAIN LAID LEVEL @ INV. 0.00' (STUB & CAP IF NOT IN CONT. #1 TYPICAL EA. END)
2" AIR/VACUUM RELIEF VALVE (12" SEWER F.M.)
EXIST. PRECAST CONC. VAULT H20-S16 16' X 7' X 7'-3"H. (INSIDE DIMEN.)

PLAN OF BLACKWATER RIVER SEWER CROSSING

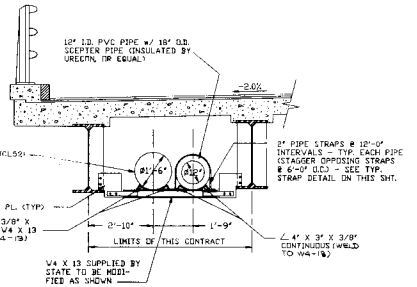
SCALE: 1"=5'


24" PVC TREATED EFFLUENT MAIN - LAID LEVEL @ INV. 0.00'
24" X 18" CONCENTRIC D.I. MECH. JT. REDUCER
18" MECH. JT. X PLAIN END 45° BEND (ROTATE AS REQ'D)
CONC. THRUST BLOCKS
12" MECH. JT. X MECH. JT. 45° BEND (ROTATE AS REQ'D)
D.I./PVC TRANSITION GASKET (TYP.@ EA. END OF BRIDGE X-ING)
12" PVC SEWER FORCE MAIN LAID LEVEL @ INV. 1.00
18" D.I. PIPE (CL52)
12" D.I. PIPE (CL52)
18" MECH. JT. X PLAIN END D.I. 45° BEND w/THRUST BLOCK (ROTATE AS REQ'D)
CONC. THRUST BLOCK
18" MECH. JT. X MECH. JT. D.I. 45° BEND (ROTATE AS REQ'D)
12" & 18" D.I. (CL52) PIPES WRAPPED w/ 2" INSULATION (MIN)
18" MECH. JT. X PLAIN END D.I. 45° BEND w/2" INSULATION (ROTATE AS REQUIRED)
PIPE HANGER (FASTENED THRU TOP OF CHAMBER)
16' X 7' X 7'-3"H. (INSIDE DIMEN.) PRECAST CONC. VAULT (H20-S16)
18" DRESSER COUPLING w/ 3" LATERAL MOVEMENT ALLOWABLE (TYP.)
18"ø D.I. PIPE (CL52)
EXIST. BRIDGE WING WALL
12" MECH. JT. X MECH. JT. D.I. 45° BENDS w/ 1/2"ø RESTRAINING RODS (ROTATE BENDS AS REQ'D)
EXIST. 6'-6" X 3'-0" KNOCKOUT
2" AIR/VACUUM RELIEF VALVE
EXIST. 36"ø C.I. M.H. FRAME & COVER
EXIST. P.V.C. COATED M.H. STEPS
12" MECH. JT. X PLAIN END D.I. 45° BEND w/2" INSULATION (ROTATE AS REQ'D)
PIPE HANGER (FASTENED THRU TOP OF CHAMBER)
12" DRESSER COUPLING w/ 3" LATERAL MOVEMENT ALLOWABLE (TYP.)
EXIST. 4'-0" X 4'-6" OPENING
12" INSULATED (SDR35) PVC PIPE INSIDE 18" O.D. SCEPTER SMOOTH WALL PVC PIPE INSULATED BY URECON OR EQUAL
EXIST. 4'-0" X 8'-2" BLOCKOUT (FILL ALL VOIDS AROUND PIPES w/ A SUITABLE, POUR IN PLACE, CLOSED CELL FOAM INSULATION-TYP. OF ALL BLOCKOUTS)
VARIES-MAINTAIN 4'-0" COVER (MIN.) OVER PIPES
2'-0"
18"℄
1'-9" (VIF)
12"℄
14'-0" TO BRIDGE CENTER LINE
A 17


2" WIDE X 3/16" GALV. STL. PIPE STRAP @ 12'-0" INTERVALS - EA. PIPE STAGGER OPPOSING STRAPS @ 6'-0" ON CENTER #)
1/2"ø GALV. STL. BOLT (TYP. 2)
SHIM AS NEEDED
W4 X13 (SUPPLIED BY STATE)
DOUBLE NUT (TYP.)

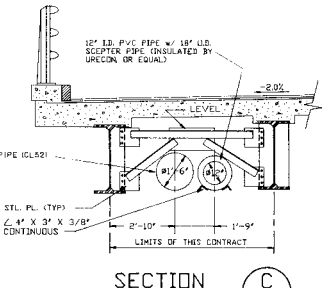
TYP. STRAP DETAIL

SCALE: 1" = 1'-0"


12" I.D. PVC PIPE w/ 18" O.D. SCEPTER PIPE (INSULATED BY URECON, OR EQUAL)
-2.0%
18"ø D.I. PIPE (CL52)
2" PIPE STRAPS @ 12'-0" INTERVALS - TYP. EACH PIPE (STAGGER OPPSING STRAPS @ 6'-0" (I.C.) - SEE TYP. STRAP DETAIL ON THIS SHT.
1/2" STL. PL. (TYP.)
∠ 4" X 3" X 3/8" X 6" LG. @ EA. W4 X 13 (WELD TO W4-13)
2'-10"
1'-9"
LIMITS OF THIS CONTRACT
∠ 4" X 3" X 3/8" CONTINUOUS (WELD TO W4-13)
W4 X 13 SUPPLIED BY STATE TO BE MODIFIED AS SHOWN

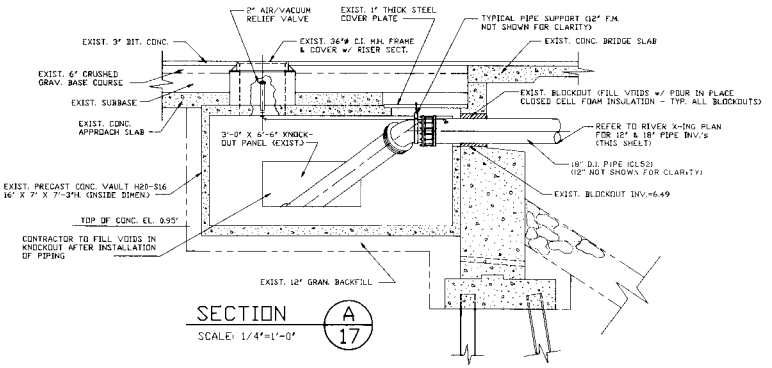
SECTION B 17

SCALE: 3/8"=1'-0"


12" I.D. PVC PIPE w/ 18" O.D. SCEPTER PIPE (INSULATED BY URECON, OR EQUAL)
-2.0%
LEVEL
18"ø D.I. PIPE (CL52)
1/2" STL. PL. (TYP.)
∠ 4" X 3" X 3/8" CONTINUOUS
2'-10"
1'-9"
LIMITS OF THIS CONTRACT

SECTION C 17

SCALE: 3/8"=1'-0"


2" AIR/VACUUM RELIEF VALVE
EXIST. 1" THICK STEEL COVER PLATE
TYPICAL PIPE SUPPORT (12" F.M. NOT SHOWN FOR CLARITY)
EXIST. 3" BIT. CONC.
EXIST. 36"ø C.I. M.H. FRAME & COVER w/ RISER SECT.
EXIST. CONC. BRIDGE SLAB
EXIST. 6" CRUSHED GRAV. BASE COURSE
EXIST. SUBBASE
EXIST. BLOCKOUT (FILL VTIDS w/ POUR IN PLACE CLOSED CELL FOAM INSULATION - TYP. ALL BLOCKOUTS)
EXIST. CONC. APPROACH SLAB
3'-0" X 6'-6" KNOCK-OUT PANEL (EXIST.)
REFER TO RIVER X-ING PLAN FOR 12" & 18" PIPE INV.'s (THIS SHEET)
18" D.I. PIPE (CL52) (12" NOT SHOWN FOR CLARITY)
EXIST. PRECAST CONC. VAULT H20-S16 16' X 7' X 7'-3"H. (INSIDE DIMEN.)
EXIST. BLOCKOUT INV.=6.49
TOP OF CONC. EL. 0.95'
CONTRACTOR TO FILL VOIDS IN KNOCKOUT AFTER INSTALLATION OF PIPING
EXIST. 12" GRAN. BACKFILL

SECTION A 17

SCALE: 1/4"=1'-0"

PLAN OF WESTERLY ACCESS VAULT (EASTERLY VAULT SIMILAR)

SCALE: 3/8"=1'-0"

NOTE: ALL ELEVATIONS ON THIS SHEET ARE BASED UPON A MEAN SEA LEVEL DATUM EQUAL TO EL. 0.00' (ALL EXIST. BRIDGE ELEVATIONS SHALL BE VERIFIED PRIOR TO ANY CONSTRUCTION)

RECORD DRAWING

NO.	REVISION	DATE	DRAWN	CHECKED	DESIGNED	APPROVED	DATE
2	REV. PIPE TYPE, ADDED DETAILS I GEN. REV.	JOB 2/12/90	JAH	JAH	JAH		3/90
1	REVISED VAULT & PIPING CONFIGURATION	JOE 1/17/89			JAH		1/89
0	ISSUED FOR APPROVAL	JOE 5/89	JAH	JAH	JAH		5/1/89

PROJECT SUPERVISOR: JOE
APPROVED:

TOWN OF SEABROOK, NEW HAMPSHIRE

PROPOSED SEWER CROSSING AT BLACKWATER RIVER BRIDGE

RECORD DRAWING

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704 | CONTRACT NO. I | SHEET 17A OF 29

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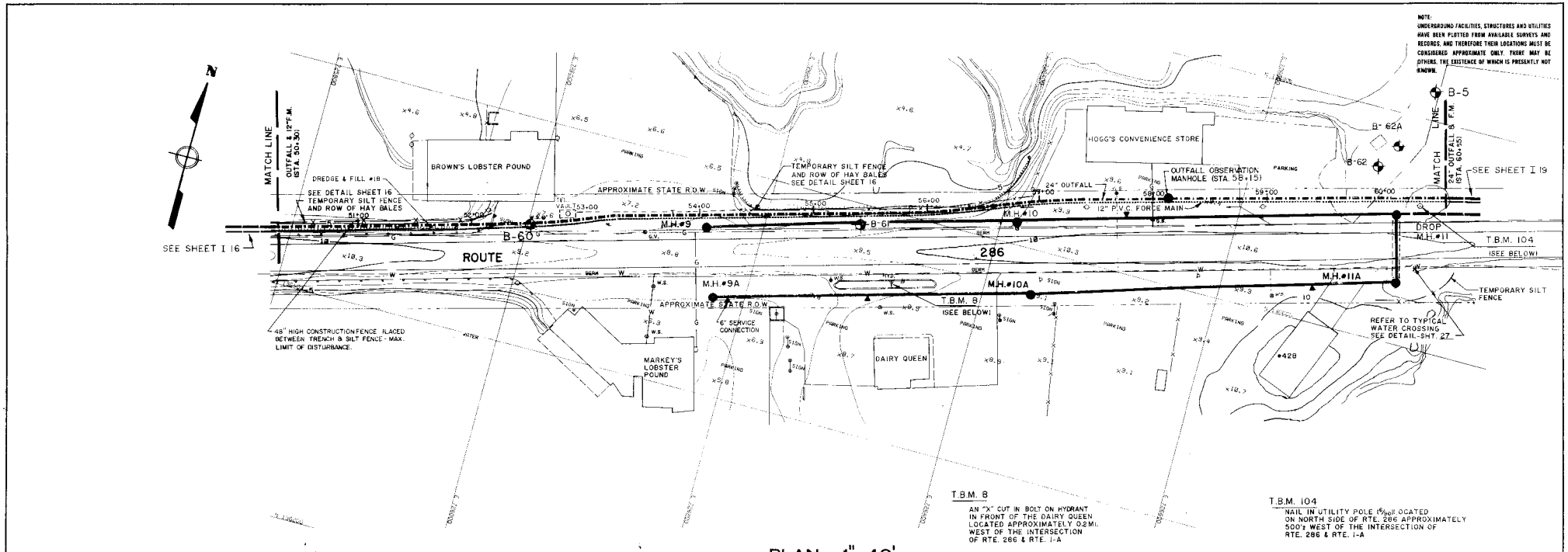


T.B.M. 8

AN "X" CUT IN BOLT ON HYDRANT IN FRONT OF THE DAIRY QUEEN LOCATED APPROXIMATELY 0.2MI. WEST OF THE INTERSECTION OF RTE. 286 & RTE. I-A

ELEV. 11.84'

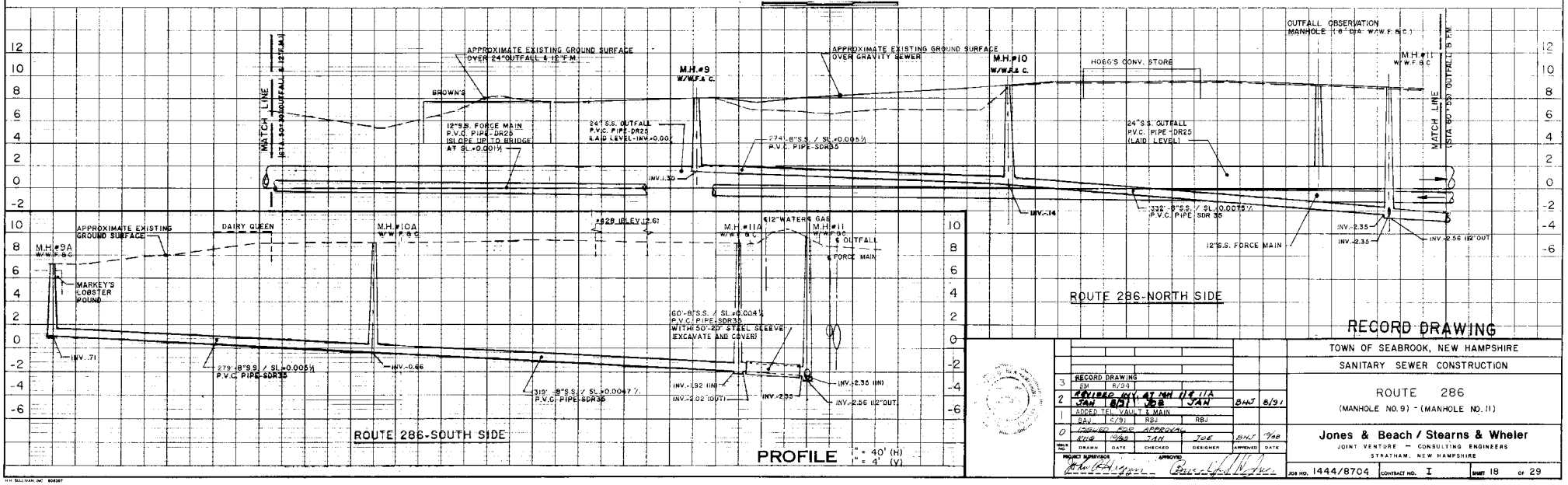
T.B.M. 104

NAIL IN UTILITY POLE (6"SQ.) LOCATED ON NORTH SIDE OF RTE. 286 APPROXIMATELY 500'± WEST OF THE INTERSECTION OF RTE. 286 & RTE. I-A

ELEV. 9.57'

PLAN 1"= 40'

0 40 80 120 FT



PROFILE

1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	BY	DATE	REVISION
3	RBJ	8/91	RECORD DRAWING
2	JAH	8/91	REVISED INV. AT MH #10 & #11A
1	RAV	6/91	ADDED TEL. VAULT & MAIN
0	EHB	4/90	ISSUED FOR APPROVAL

DRAWN: EHB 4/90 | CHECKED: JAH 7/90 | DESIGNER: JDE | APPROVED: BHJ 7/90 | DATE

PROJECT SUPERVISOR: John A. Hannon | APPROVED: Robert J. Beach

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 286

(MANHOLE NO.9) - (MANHOLE NO.11)

Jones & Beach / Stearns & Wheler

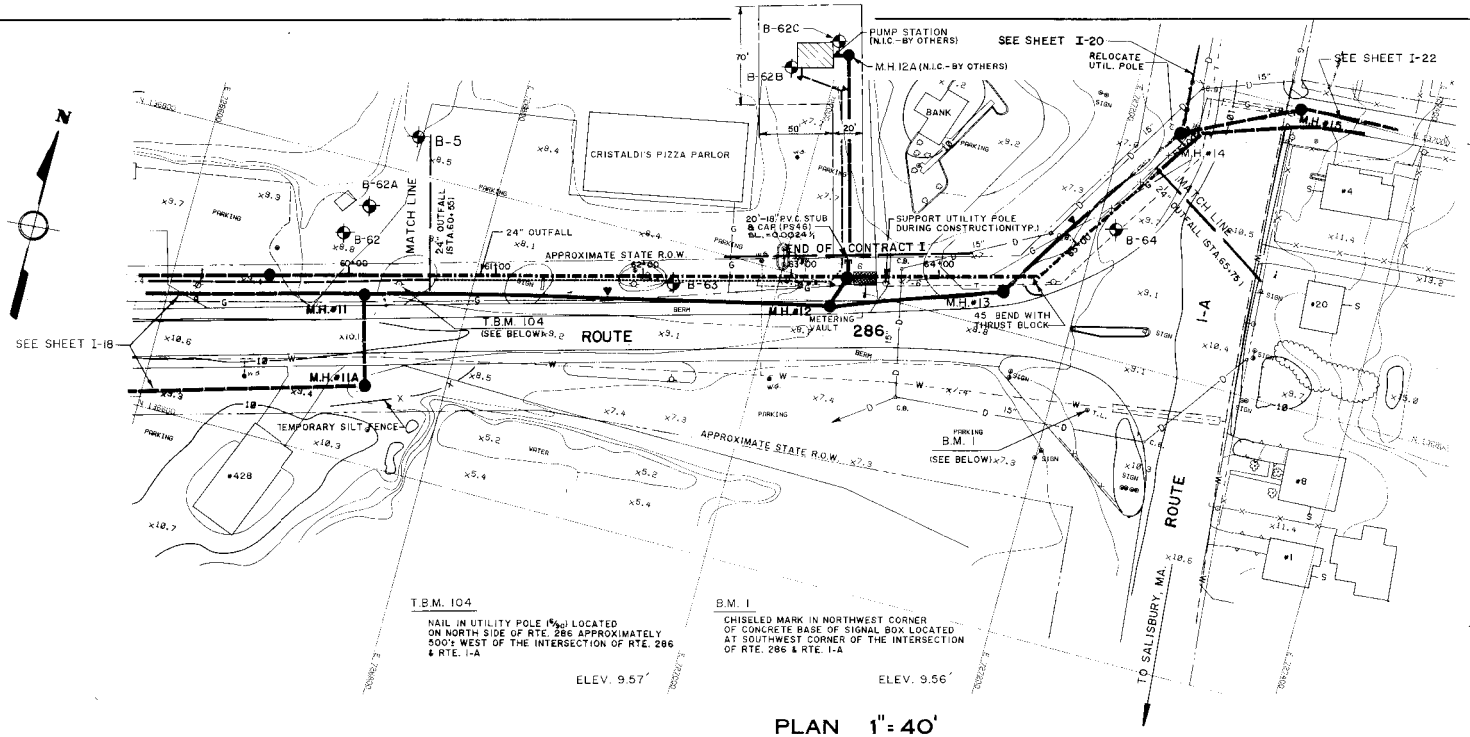
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

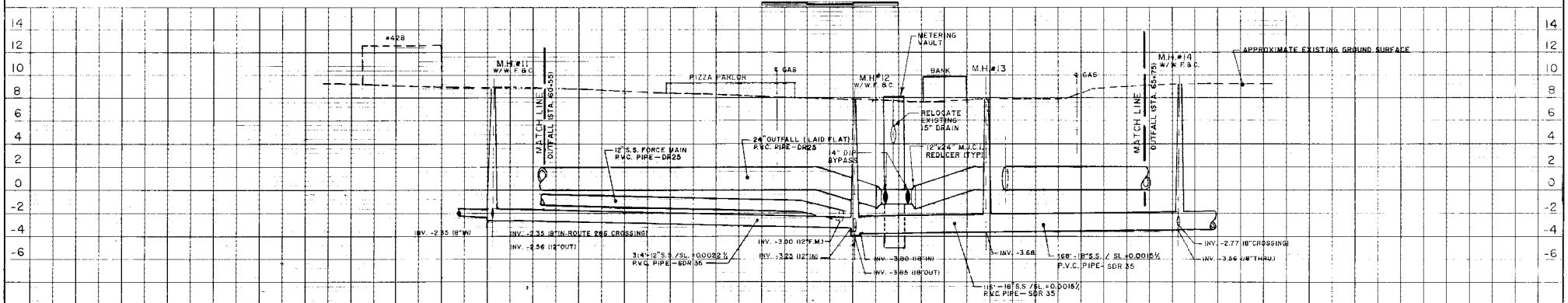
JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 18 OF 29

H.H. SULLIVAN, INC. 604387

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD DRAWING	EM	8/94				
3	REVISED AS PER ADDENDUM #1	SND	4/93				
2	REVISED INV. &c. AT MH 12 & 11	JAH	6/91	JOB	JAH	BHJ	6/91
1	ADDED UNDERGROUND TELEPHONE	BAT	4/91			JAH	4/91
0	ISSUED FOR APPROVAL	EMS	1/90	JAH	JCE	BHJ	7/89

PROJECT SUPERVISOR: John Glover — APPROVED: Bruce H. Jones

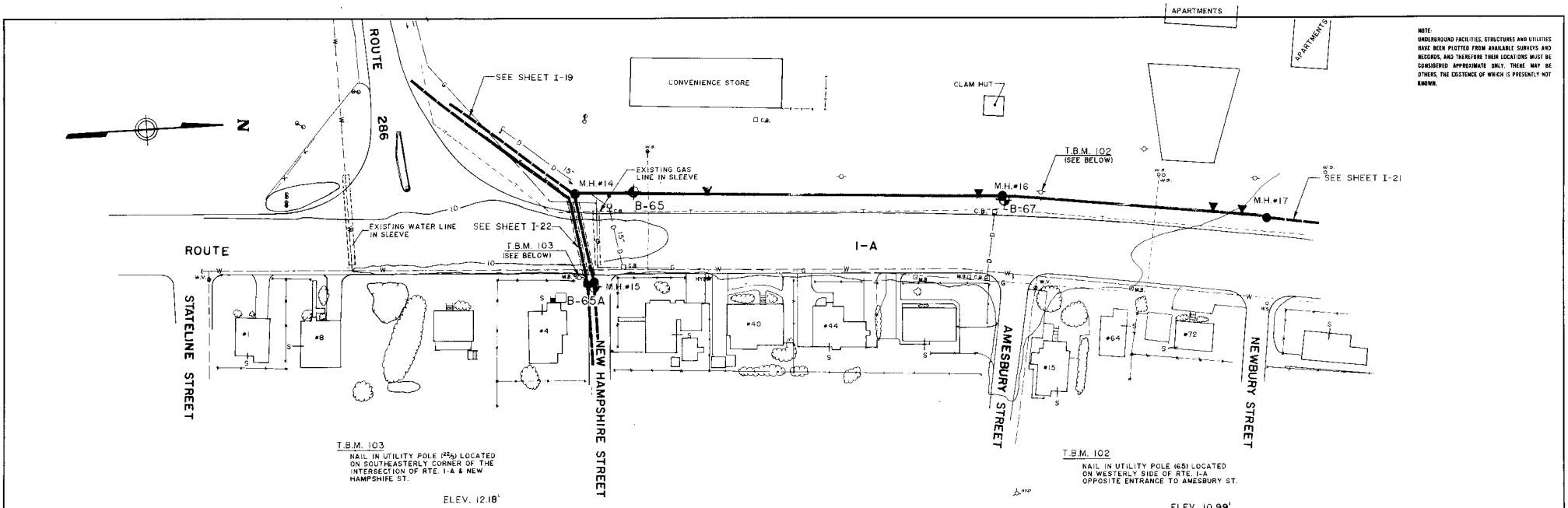
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

ROUTE 286 & ROUTE I-A
(MANHOLE NO. 11) - (MANHOLE NO. 14)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. I | SHEET 19 OF 29

H.W. SULLIVAN, INC. 186387



NOTE:
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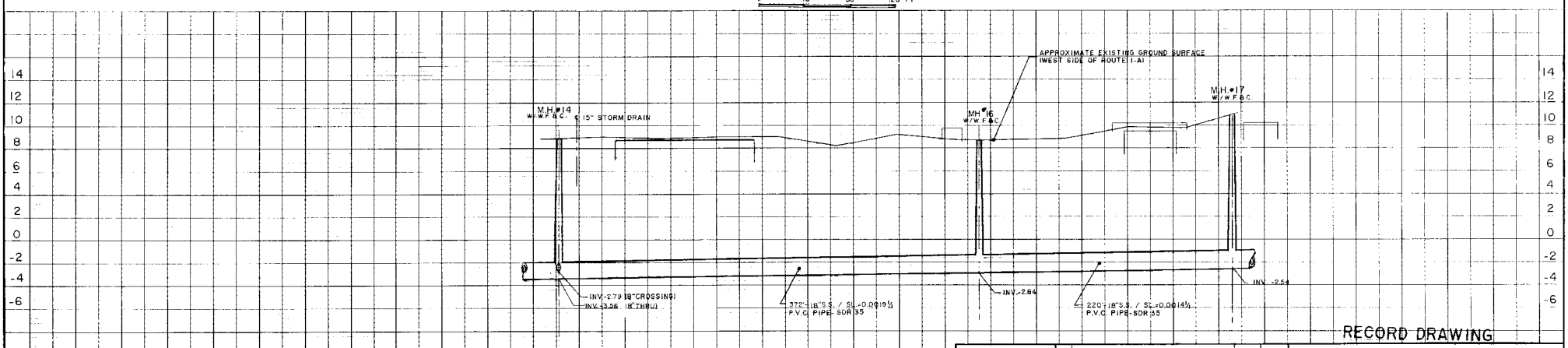
PLAN 1" = 40'

0 40 80 120 FT


APPROXIMATE EXISTING GROUND SURFACE (WEST SIDE OF ROUTE I-A)
M.H.#14 W/W.F.&C. & 15" STORM DRAIN
MH #16 W/W.F.&C.
M.H.#17 W/W.F.&C.
(INV.-2.79 18"CROSSING) INV.-3.56 18"THRU)
372'-18"S.S. / SL=0.0019½ P.V.C. PIPE-SDR 35
INV.-2.84
220'-18"S.S. / SL=0.0014½ P.V.C. PIPE-SDR 35
INV.-2.54
14 12 10 8 6 4 2 0 -2 -4 -6

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE I-A

(MANHOLE NO.14) - (MANHOLE NO.17)

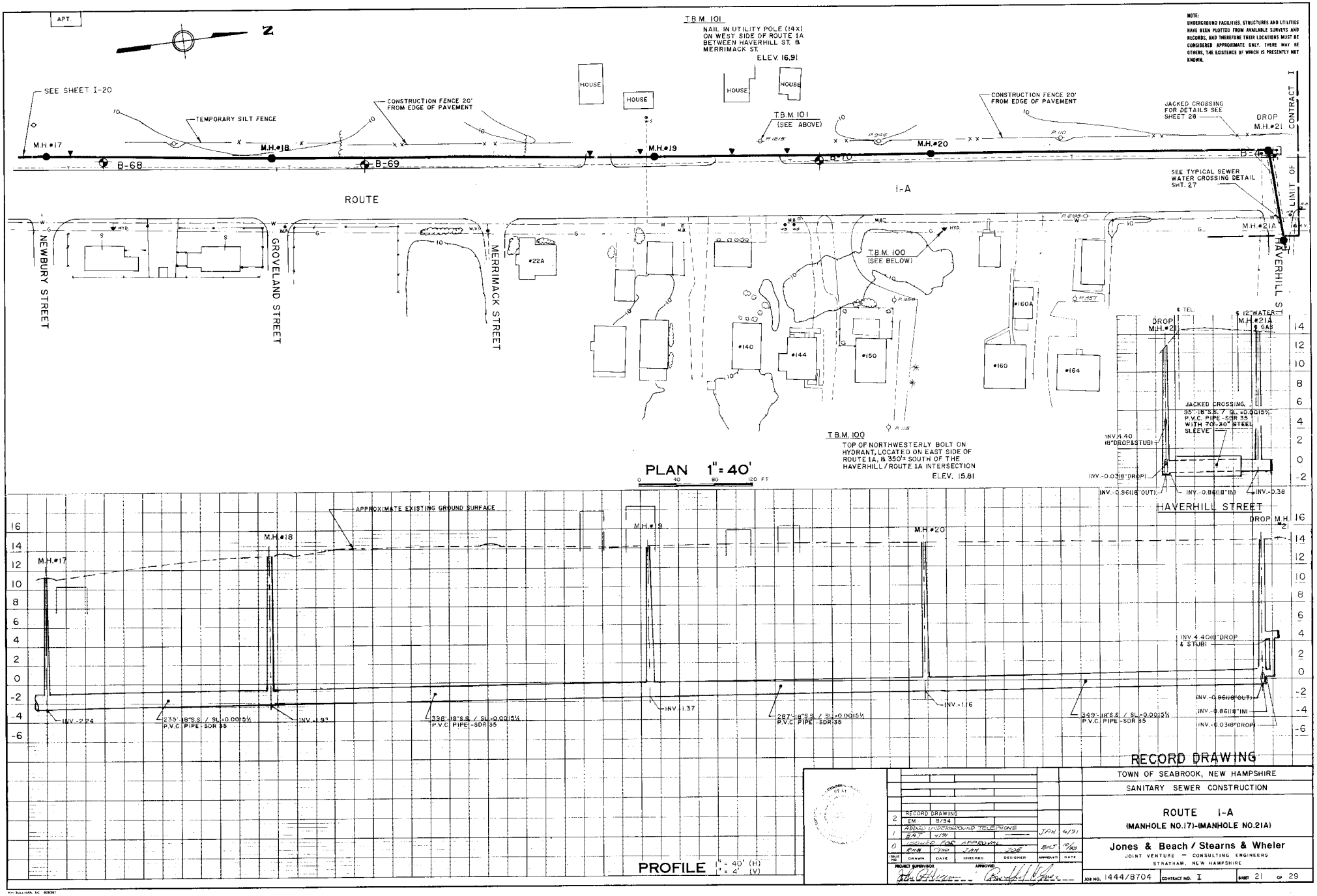
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	EM	8/94	RECORD DRAWING			
1	BAT	4/91	ADDED UNDERGROUND TELEPHONE		JAH	4/91
0	RHG	11/90	ISSUED FOR APPROVAL	JAH	BAT	1/90

PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. I SHEET 20 OF 29

H.P. SULLIVAN, INC 880381



RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE I-A

(MANHOLE NO.17)-(MANHOLE NO.21A)

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	EM	8/94	RECORD DRAWING			
1	BAT	4/91	ADDED UNDERGROUND TELEPHONE		JAH	4/91
0	RAB	12/90	ISSUED FOR APPROVAL	JAH	BAT	9/90

PROJECT SUPERVISOR: APPROVED:

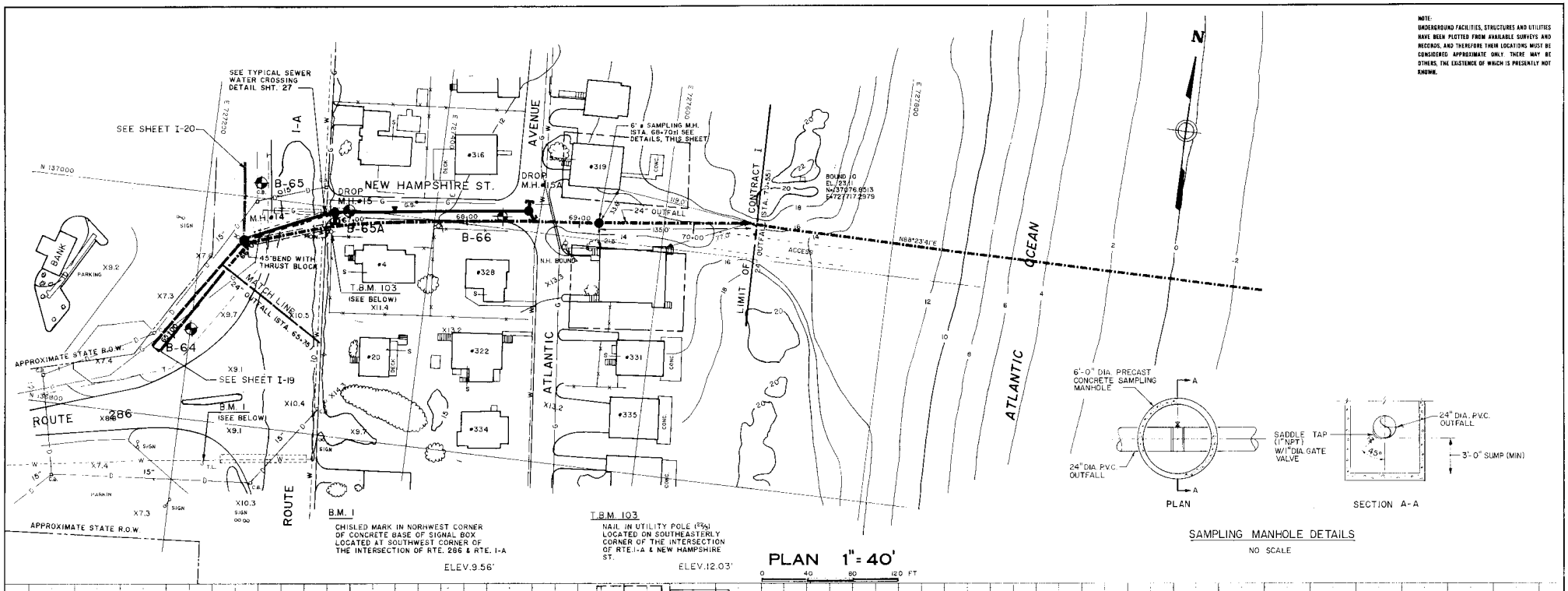
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. I SHEET 21 OF 29

H.H. SULLIVAN, SC 820397



NOTE:
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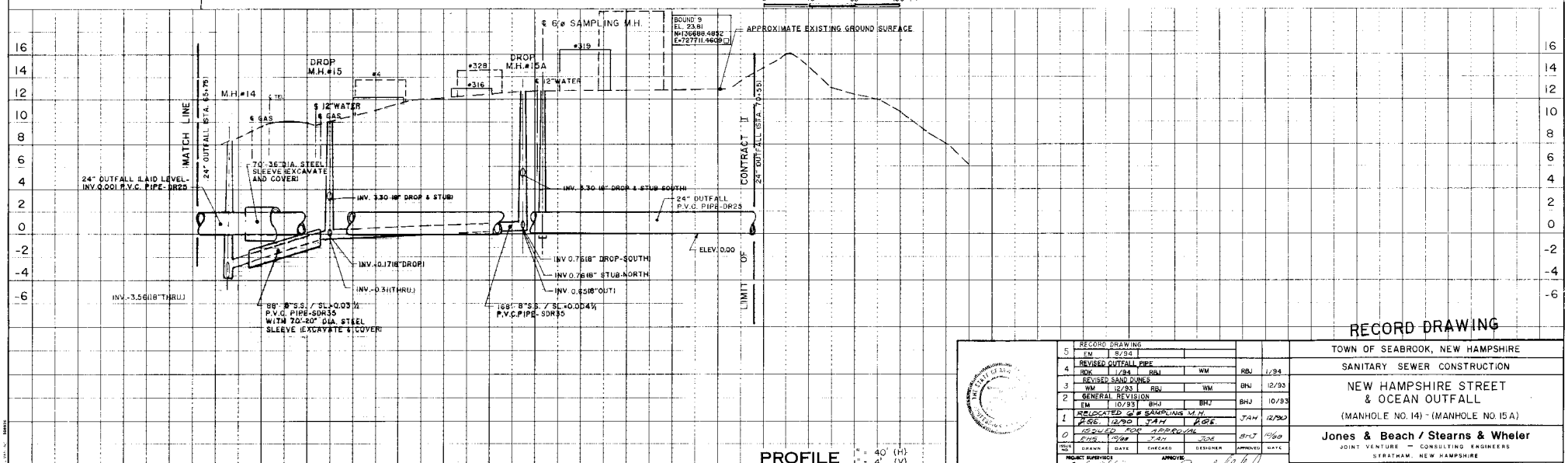
SAMPLING MANHOLE DETAILS
NO SCALE

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
5	RECORD DRAWING	EM	8/94				
4	REVISED OUTFALL PIPE	ROK	1/94	RBJ	WM	RBJ	1/94
3	REVISED SAND DUNES	WM	12/93	RBJ	WM	BHJ	12/93
2	GENERAL REVISION	EM	10/93	BHJ	BHJ	BHJ	10/93
1	RELOCATED ℄ 6' SAMPLING M.H.	PSE	12/90	JAH	BHJ	JAH	12/90
0	ISSUED FOR APPROVAL	PMS	7/90	JAH	BHJ	BHJ	7/90

PROJECT SUPERVISOR: APPROVED:

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
NEW HAMPSHIRE STREET & OCEAN OUTFALL
(MANHOLE NO. 14) - (MANHOLE NO. 15A)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. I SHEET 22 OF 29

SANITARY SEWER CONSTRUCTION

SEABROOK, NEW HAMPSHIRE

CONTRACT NO. 2

1993

JONES & BEACH/STEARNS & WHELER

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

RECORD DRAWING

ABBREVIATIONS

BENCHMARK	BM
BITUMINOUS	BIT
CAST IRON PIPE	CIP
CATCH BASIN	CB
CONCRETE	CONC
CORR. METAL PIPE	CMP
DRAIN	D
ELEVATION	EL
FENCE	FC
FIRST FLOOR	FF
FORCE MAIN	FM
GAS MAIN	G
GUIDE POST	GP
HYDRANT	HYD
INVERT	INV
IRON PIN	IP
LAMP POLE	LP
MANHOLE	MH
MONUMENT	MON
PERCENT GRADE	%
PERM. EASEMENT	PE
RIGHT OF WAY	ROW
SEWER	S
STONE	ST
SEWER MANHOLE	SMH
TEMP. EASEMENT	TE
WATER	W
WOOD	WD
WOVEN WIRE	WW
PROPERTY LINE	P
GRAVEL	GRAV

SELECTMEN

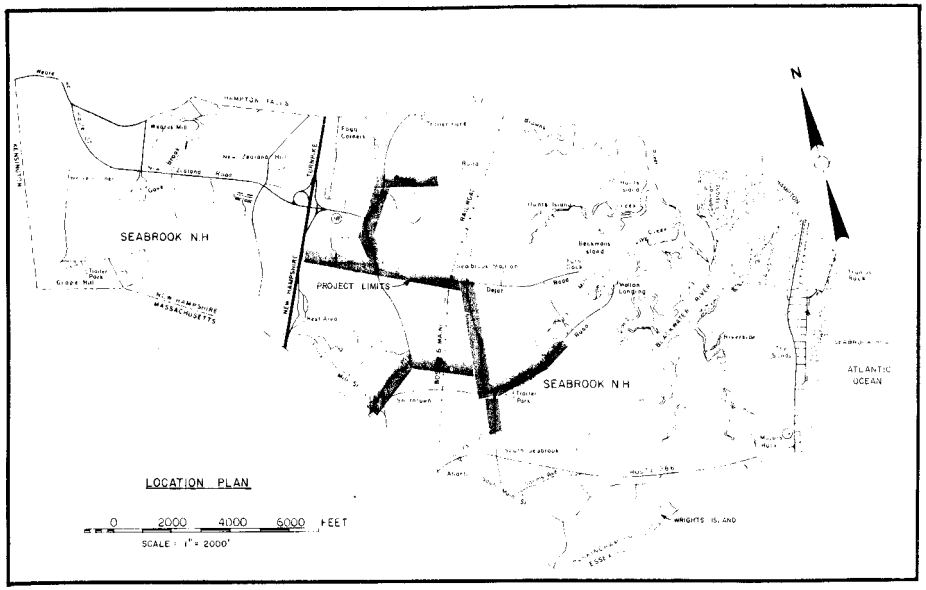
ASA H. KNOWLES JR., CHAIRMAN

ELIZABETH A. THIBODEAU

BURWELL PIKE

TOWN MANAGER

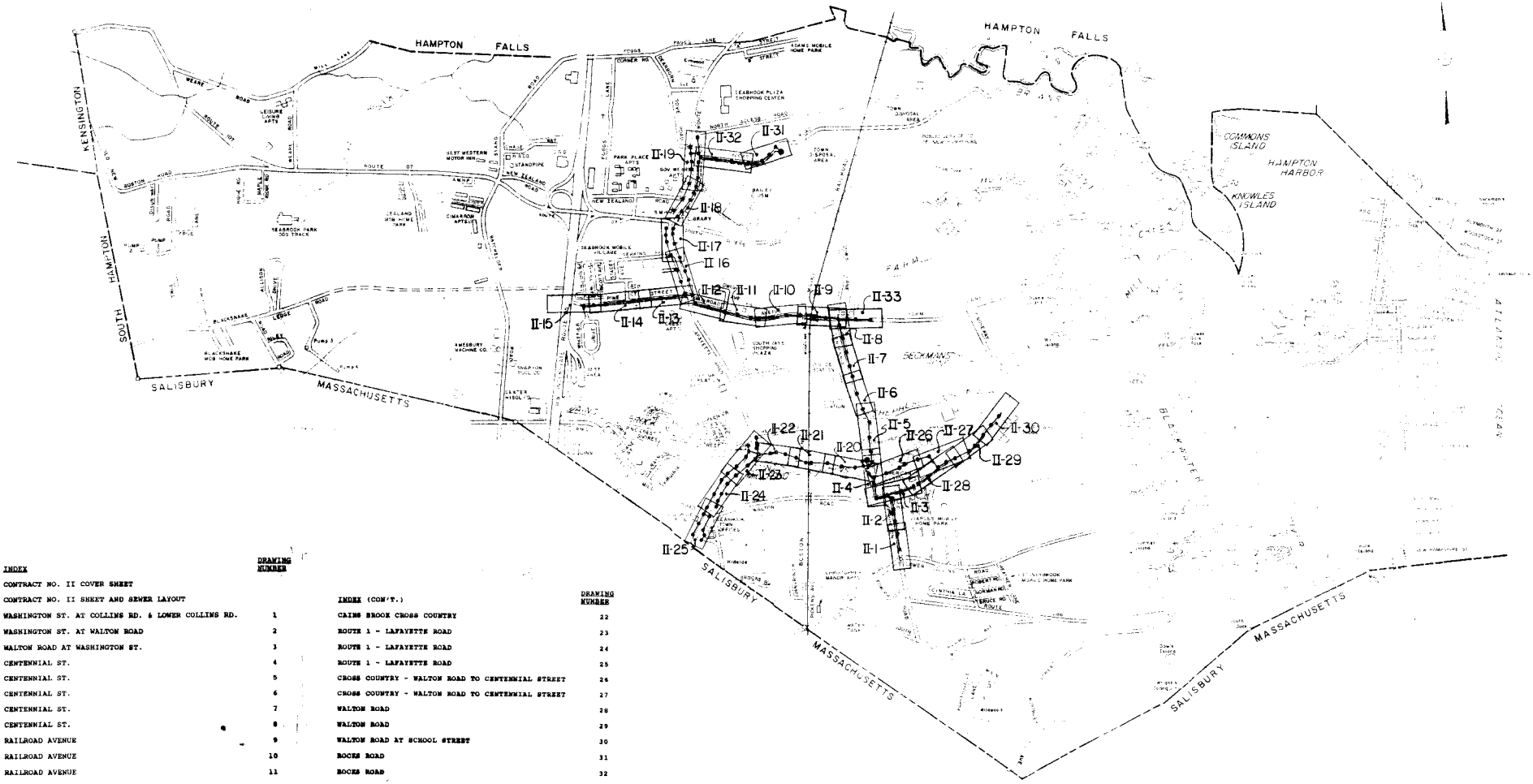
E. RUSSELL BAILEY



LEGEND

PROPOSED SANITARY SEWER WITH LATERAL	
EXISTING SANITARY SEWER WITH LATERAL	
SANITARY SEWER WITH PROFILE ON ANOTHER SHEET	
FORCE MAIN	
PUMP STATION (PROPOSED/EXISTING)	P.S. P.S.
OCEAN OUTFALL WITH STATIONING	
MANHOLE (PROPOSED/EXISTING)	M.H. M.H.
CATCH BASIN (PROPOSED/EXISTING)	C.B. C.B.
CULVERT	SIZE & TYPE
HYDRANT	HYD
WATER MAIN	W
WATER VALVE/WATER SERVICE	W.V. W.S.
GAS MAIN	G
GAS VALVE/GAS SERVICE	G.V. G.S.
UNDERGROUND TELEPHONE/ELECTRICAL	T E
STREAM/BROOK	
POND/WET AREA	
RIVER	
WOODS AND/OR BRUSH LINE	
APPROXIMATE TOWN/STATE LINE	
APPROXIMATE RIGHT-OF-WAY LINE	
EXISTING CONTOUR	50
PROPOSED CONTOUR	
LEDGE OUTCROP	
RETAINING WALL	
GUARD RAIL	
STONE WALL	
FENCE	
CONIFEROUS/DECIDUOUS TREES	
SHRUBS OR BUSH	
HOUSE OR BUILDING	
HOUSE NUMBER	25
HOUSE WITH SEWER SERVICE	
UTILITY POLE	
LAMP POLE	L.P.
MAILBOX	M.B.
SIGN	S
BASELINE CONTROL POINT	CM-1
PIPE INSULATION	
FABRIC FENCE (SILTATION CONTROL)	

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.



INDEX	DRAWING NUMBER
CONTRACT NO. II COVER SHEET	
CONTRACT NO. II SHEET AND SEWER LAYOUT	
WASHINGTON ST. AT COLLINS RD. & LOWER COLLINS RD.	1
WASHINGTON ST. AT WALTON ROAD	2
WALTON ROAD AT WASHINGTON ST.	3
CENTENNIAL ST.	4
CENTENNIAL ST.	5
CENTENNIAL ST.	6
CENTENNIAL ST.	7
CENTENNIAL ST.	8
RAILROAD AVENUE	9
RAILROAD AVENUE	10
RAILROAD AVENUE	11
RAILROAD AVENUE AT LAFAYETTE ROAD	12
PINE ST.	13
PINE ST.	14
PINE ST.	15
ROUTE 1 - LAFAYETTE ROAD	16
ROUTE 1 - LAFAYETTE ROAD	17
ROUTE 1 - LAFAYETTE ROAD	18
ROUTE 1 - LAFAYETTE ROAD	19
CAIN'S BROOK - CROSS COUNTRY TO PUMP STATION AT CENTENNIAL STREET	20
CAIN'S BROOK CROSS COUNTRY	21

INDEX (CON'T.)	DRAWING NUMBER
CAINS BROOK CROSS COUNTRY	22
ROUTE 1 - LAFAYETTE ROAD	23
ROUTE 1 - LAFAYETTE ROAD	24
ROUTE 1 - LAFAYETTE ROAD	25
CROSS COUNTRY - WALTON ROAD TO CENTENNIAL STREET	26
CROSS COUNTRY - WALTON ROAD TO CENTENNIAL STREET	27
WALTON ROAD	28
WALTON ROAD	29
WALTON ROAD AT SCHOOL STREET	30
ROCKS ROAD	31
ROCKS ROAD	32
FARM LANE	33
EROSION CONTROL DETAILS	34
STANDARD MANHOLE DETAILS - SHEET 1 OF 2	35
STANDARD MANHOLE DETAILS - SHEET 2 OF 2	36
STANDARD TRENCH SECTIONS	37
MISCELLANEOUS DETAILS	38
SLEEVE & JACKING DETAILS	39
HOUSE SEWER DETAILS	40

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

CONTRACT NO. 2

SHEET AND SEWER LAYOUT

NO.	ISSUED FOR APPROVAL					
	RHG	1/89	JAH	JOE	BHJ	1/89
	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
GRATHAM, NEW HAMPSHIRE

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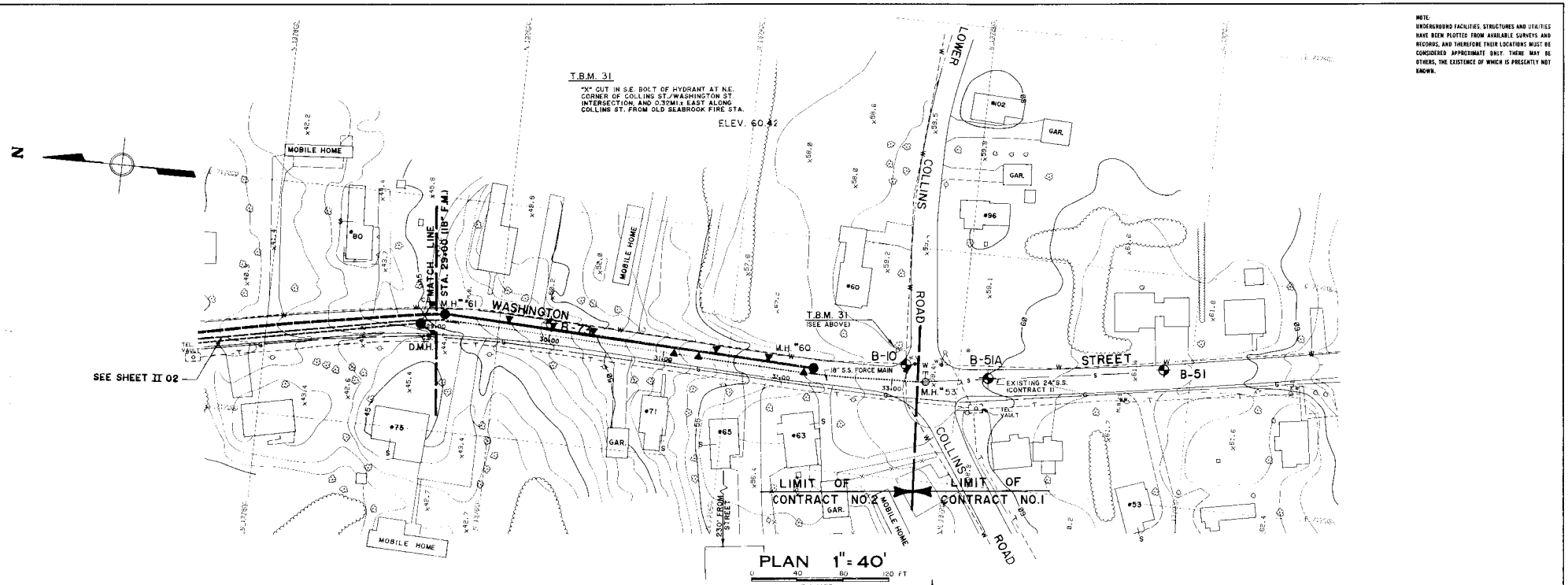
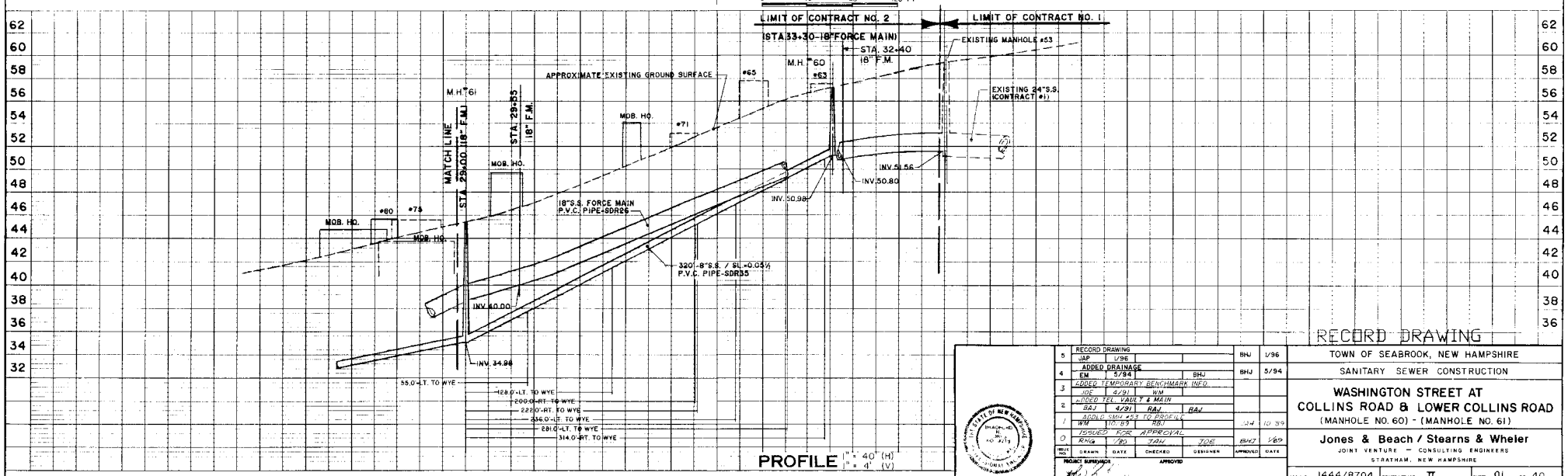


PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
5	RECORD DRAWING	JAP	1/96			BHJ	1/96
4	ADDED DRAINAGE	EM	5/94		BHJ	BHJ	5/94
3	ADDED TEMPORARY BENCHMARK INFO.	JOE	4/91	WM			
2	ADDED TEL. VAULT & MAIN	BAJ	4/91	BAJ	BAJ		
1	ADDED MH #53 TO PROFILE	WM	10-89	RD		JH	10-89
0	ISSUED FOR APPROVAL	RMG	7/0	TJH	JOE	BHJ	7/89

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

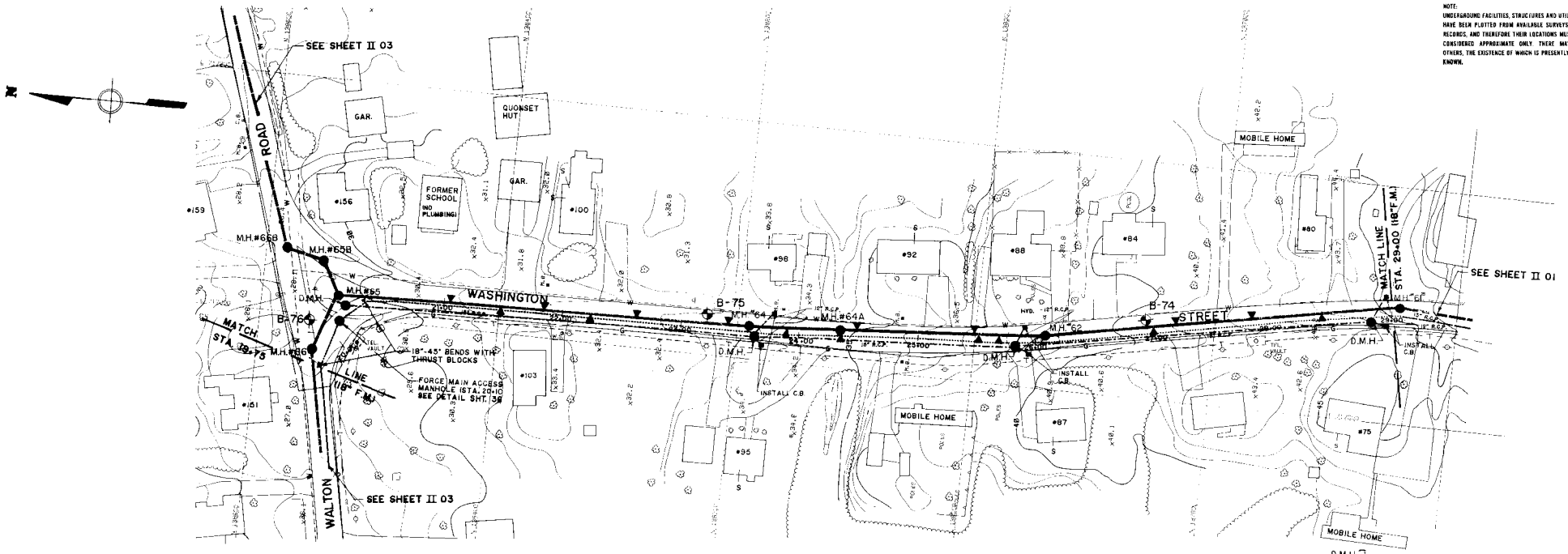
SANITARY SEWER CONSTRUCTION

WASHINGTON STREET AT COLLINS ROAD & LOWER COLLINS ROAD

(MANHOLE NO. 60) - (MANHOLE NO. 61)

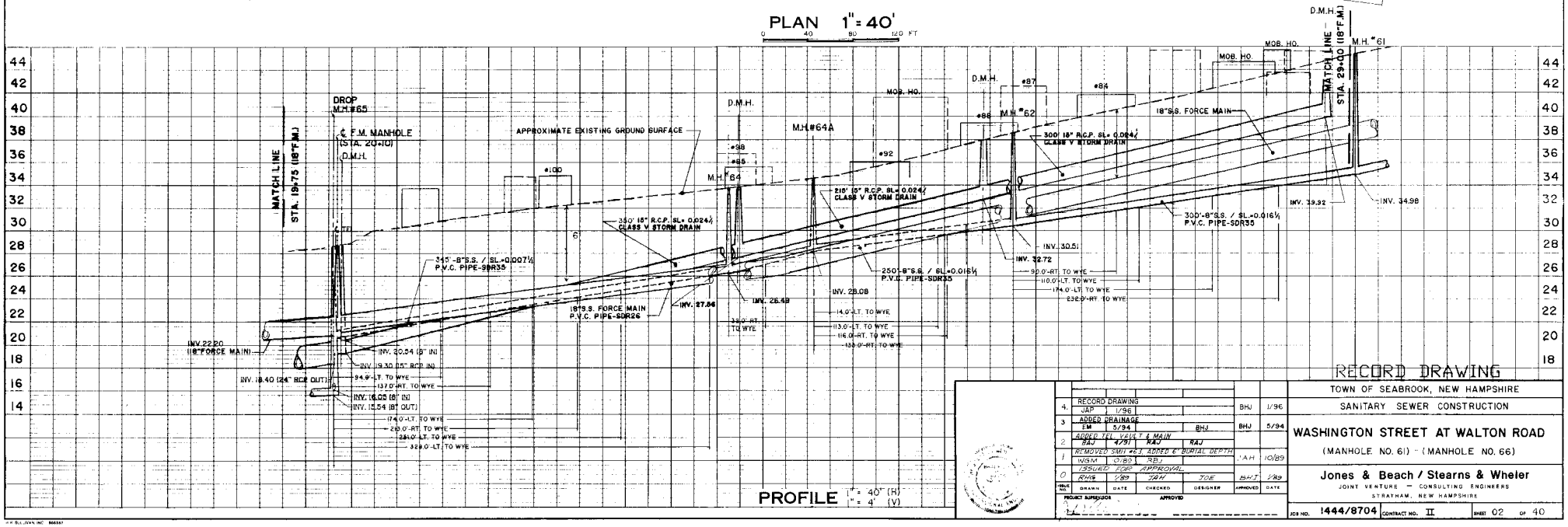
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 01 OF 40



PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4.	RECORD DRAWING JAP 1/96					BHJ	1/96
3	ADDED DRAINAGE EM 5/94			BHJ		BHJ	5/94
2	ADDED TEL. VAULT & MAIN BAJ 4/91		RAJ		RAJ		
1	REMOVED SMH #63, ADDED 6' BURIAL DEPTH						
	INSM	CAB	RB			JAH	10/89
0	ISSUED FOR APPROVAL						
	RHS	1/89	JAH		JOE	BHJ	1/89

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WASHINGTON STREET AT WALTON ROAD

(MANHOLE NO. 61) - (MANHOLE NO. 66)

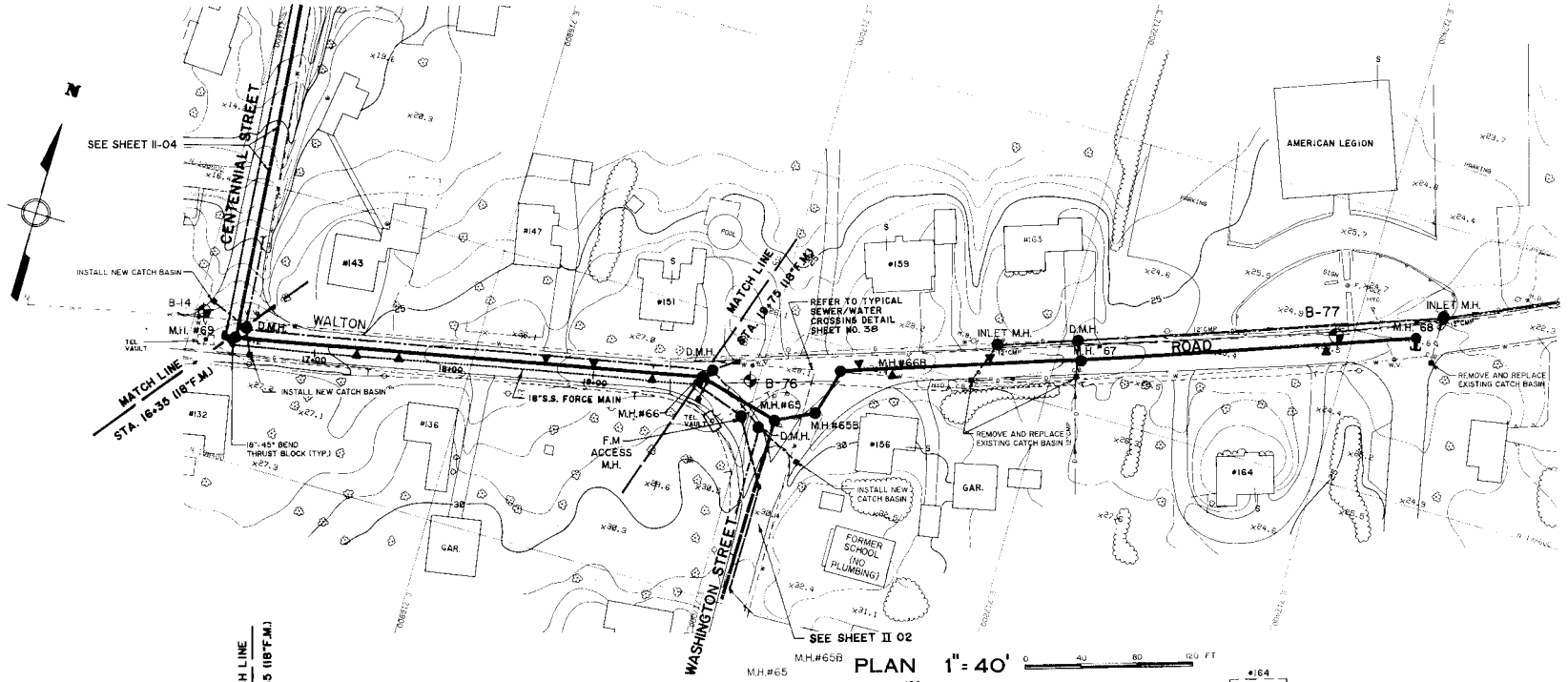
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 02 OF 40

SULLIVAN, INC. 866587



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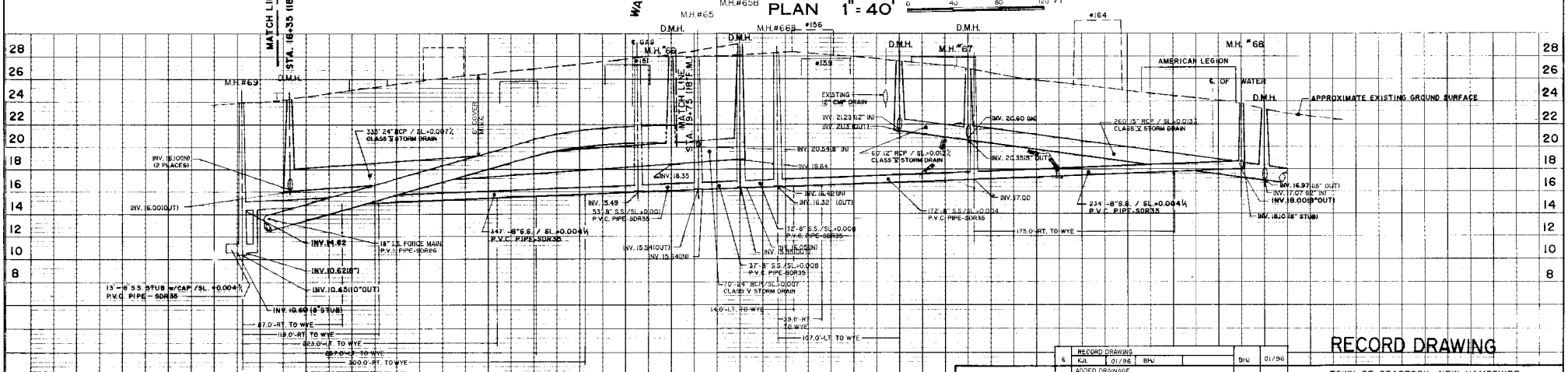
T.B.M. 49

CHISELED "□" ON S.W. CORNER OF CONCRETE BASE OF MARBLE MONUMENT IN FRONT OF AMERICAN LEGION POST No. 70, APPROX. 0.80MI. EAST OF WALTON RD./U.S. 1 INTERSECTION

ELEV. 24.92

PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
6	RECORD DRAWING KJL	01/96	BHJ		BHJ	01/96
5	ADDED DRAINAGE RDK	3/94	DT	BHJ	BHJ	3/94
4	REVISED 8" ST.@ ON M.H. #69 JOE	4/91	WM	JOE		
3	ADDED TEMPORARY BENCHMARK INFO. JOE	4/91	WM	JOE		
2	ADDED TEL. VAULT & MAIN BAJ	4/31	BAJ	BAJ		
1	ADDED 6' BURIAL DEPTH TO F.M. WM	10/89	BAJ		JAH	10/89
0	ISSUED FOR APPROVAL RHS	1/89	JAH	JOE	BHJ	1/89

PROJECT SUPERVISOR _____ APPROVED _____

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

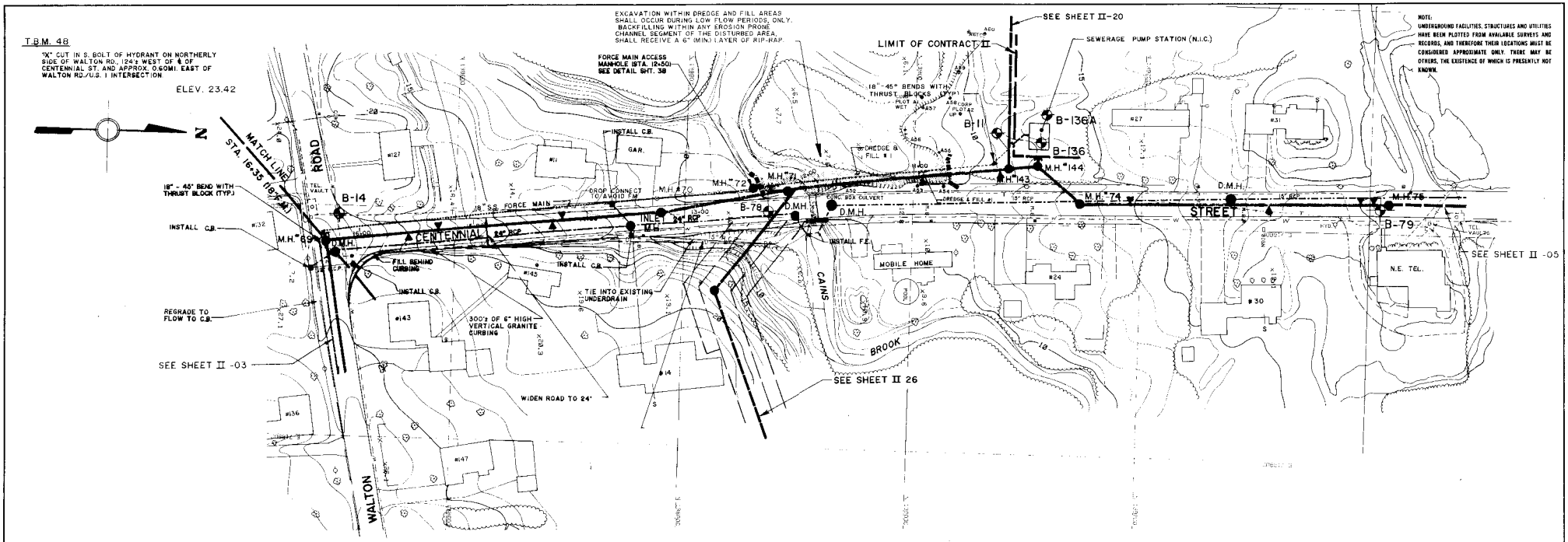
WALTON ROAD AT WASHINGTON STREET

(MANHOLE NO. 66) - (MANHOLE NO. 69)

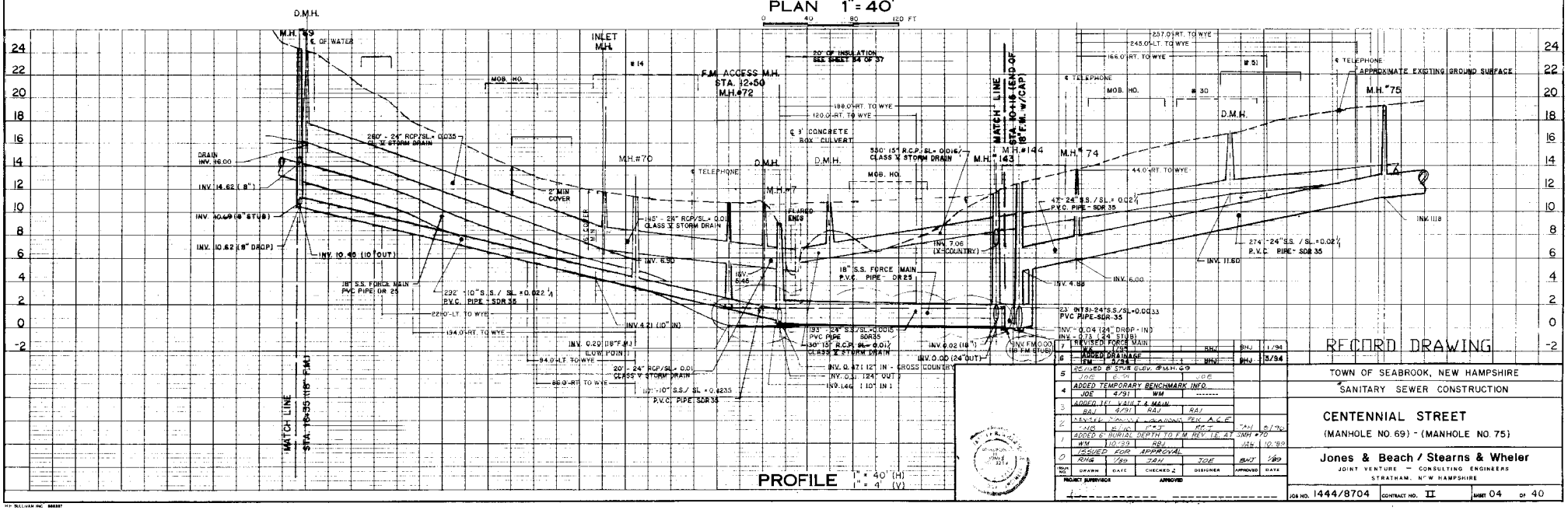
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 03 OF 40

M.H. SULLIVAN, INC. 800287



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

NO.	REVISED 8" STUB ELEV. @ M.H. 69	BY	APPROVED	DATE
5	INV. 10.69	WM	BHJ	1/94
4	ADDED TEMPORARY BENCHMARK INFO.	JOE	4/91	WM
3	ADDED 16" VAULT & MAIN	RAJ	4/91	RAJ
2	MATCH LINE CHANGED PER A.C.E.	HJB	5/90	RMT
1	ADDED 6' BURIAL DEPTH TO F.M. REV. I.E. AT JMH #70	WM	10/89	RBJ
0	ISSUED FOR APPROVAL	RHG	1/89	JAH

DRAWN | DATE | CHECKED | DESIGNER | APPROVED | DATE

PROJECT SUPERVISOR ____ APPROVED ____

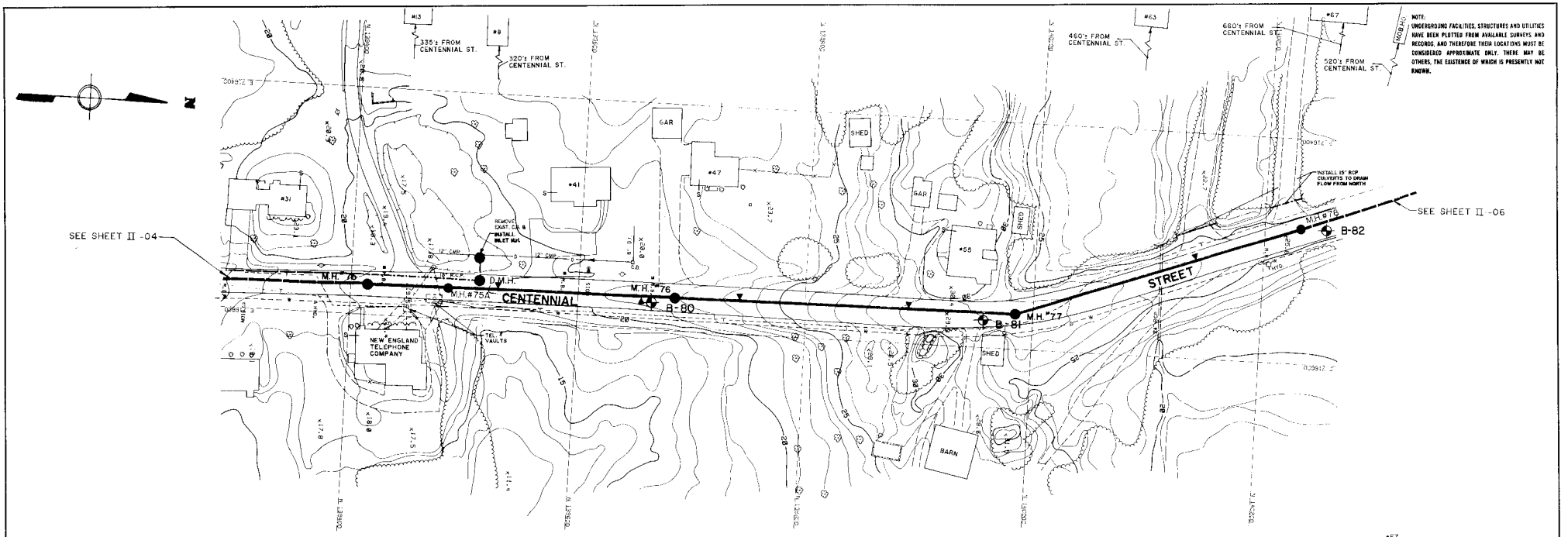
RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

CENTENNIAL STREET
(MANHOLE NO. 69) - (MANHOLE NO. 75)

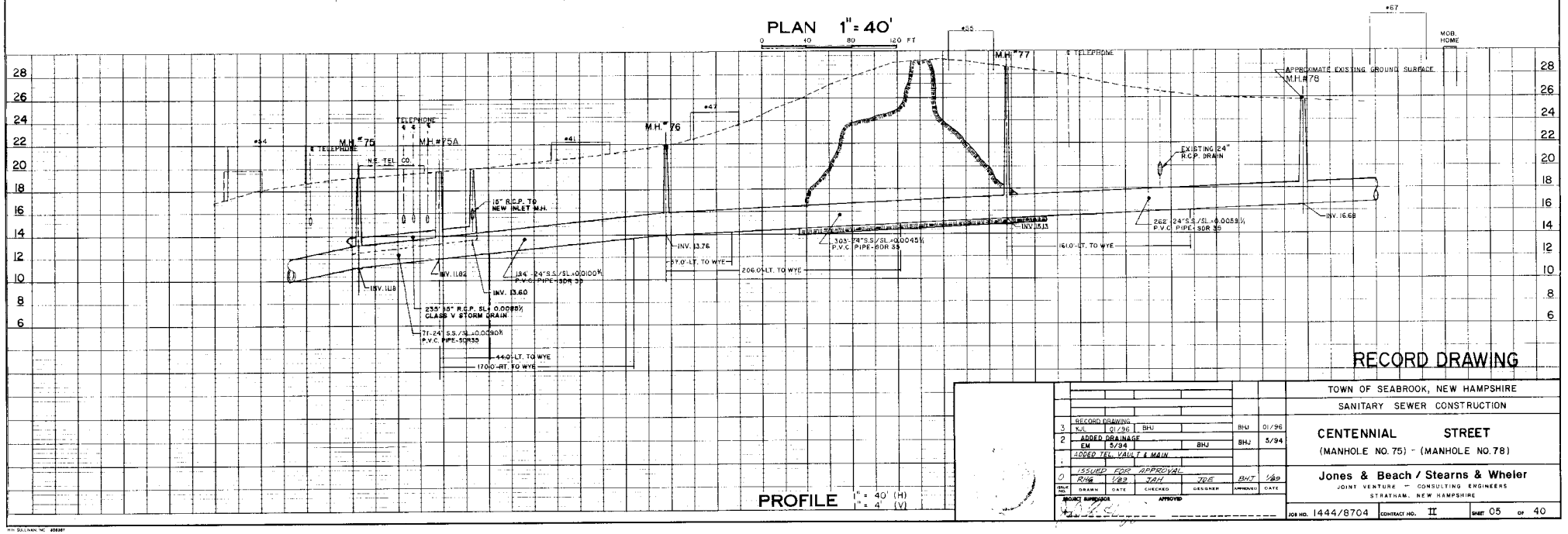
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 04 OF 40



PLAN 1" = 40'

PROFILE 1" = 40' (H) 1" = 4' (V)



RECORD DRAWING

3	RECORD DRAWING	K.L.	01/96	BHJ		BHJ	01/96
2	ADDED DRAINAGE	EM	5/94		BHJ	BHJ	5/94
1	ADDED TEL. VAULT & MAIN						
0	ISSUED FOR APPROVAL	RHG	1/93	JAH	JDE	BHJ	1/93
DELTA NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CENTENNIAL STREET

(MANHOLE NO. 75) - (MANHOLE NO. 78)

Jones & Beach / Stearns & Wheler

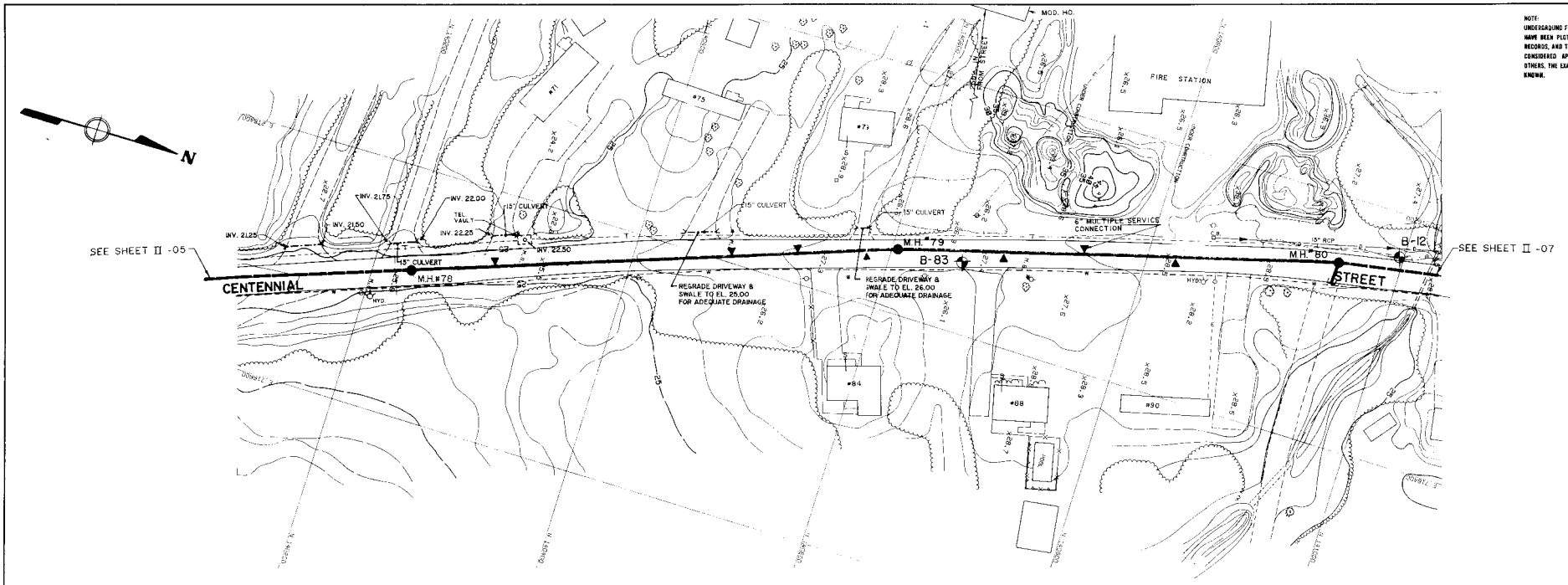
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 05 OF 40

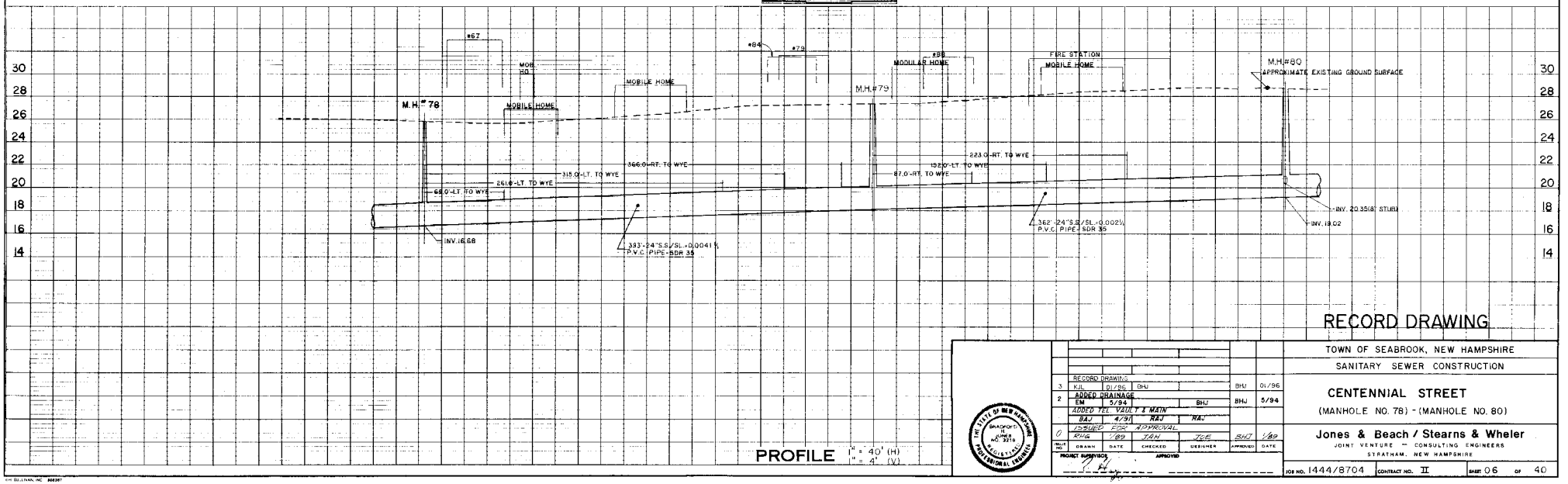
H.H. SULLIVAN, INC. 406387

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
2	ADDED DRAINAGE EM 5/94	BAJ	4/94	RAU	BHJ	BHJ	5/94
	ADDED TEL. VAULT & MAIN	BAJ	4/94	RAU	RAU		
1	ISSUED FOR APPROVAL	RHG	1/89	JAN	JOE	BHJ	1/89

PROJECT SUPERVISOR _____ APPROVED _____

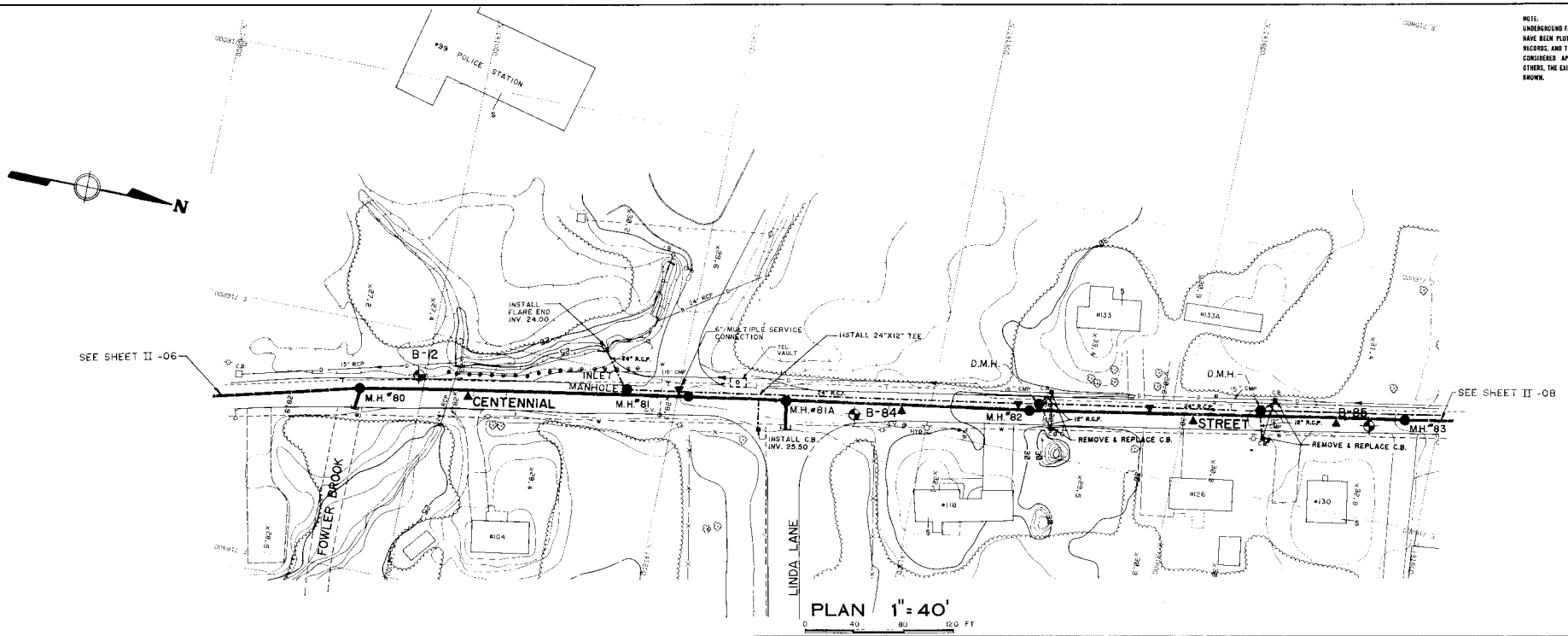
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

CENTENNIAL STREET
(MANHOLE NO. 78) - (MANHOLE NO. 80)

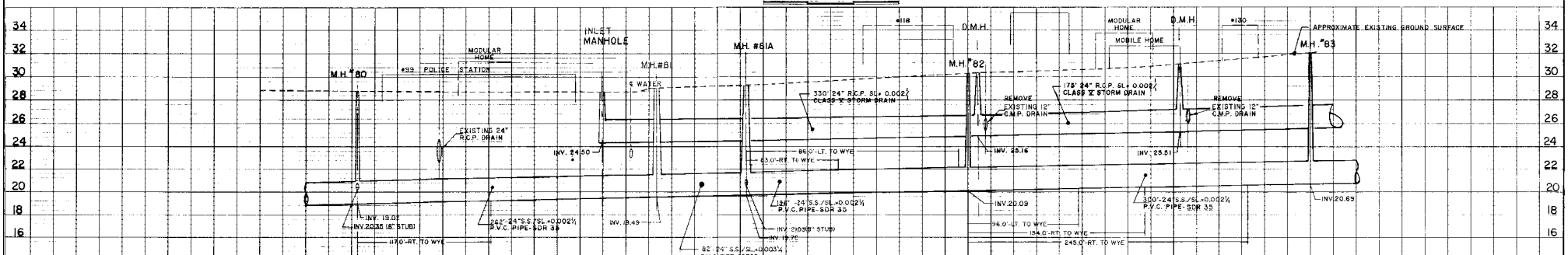
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 06 OF 40

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD DRAWING KJL	01/96	BHJ		BHJ	01/96
3	ADDED DRAINAGE SM	3/94	WM	BHJ	BHJ	3/94
2	ADDED LINDA LANE RDK	1/94	RBJ	WM	BHJ	1/94
1	ADDED TEL VAULT & MAIN BAJ	4/91	RAJ	RAJ		
0	ISSUED FOR APPROVAL RHG	1/89	JAH	JBE	BHJ	1/89

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

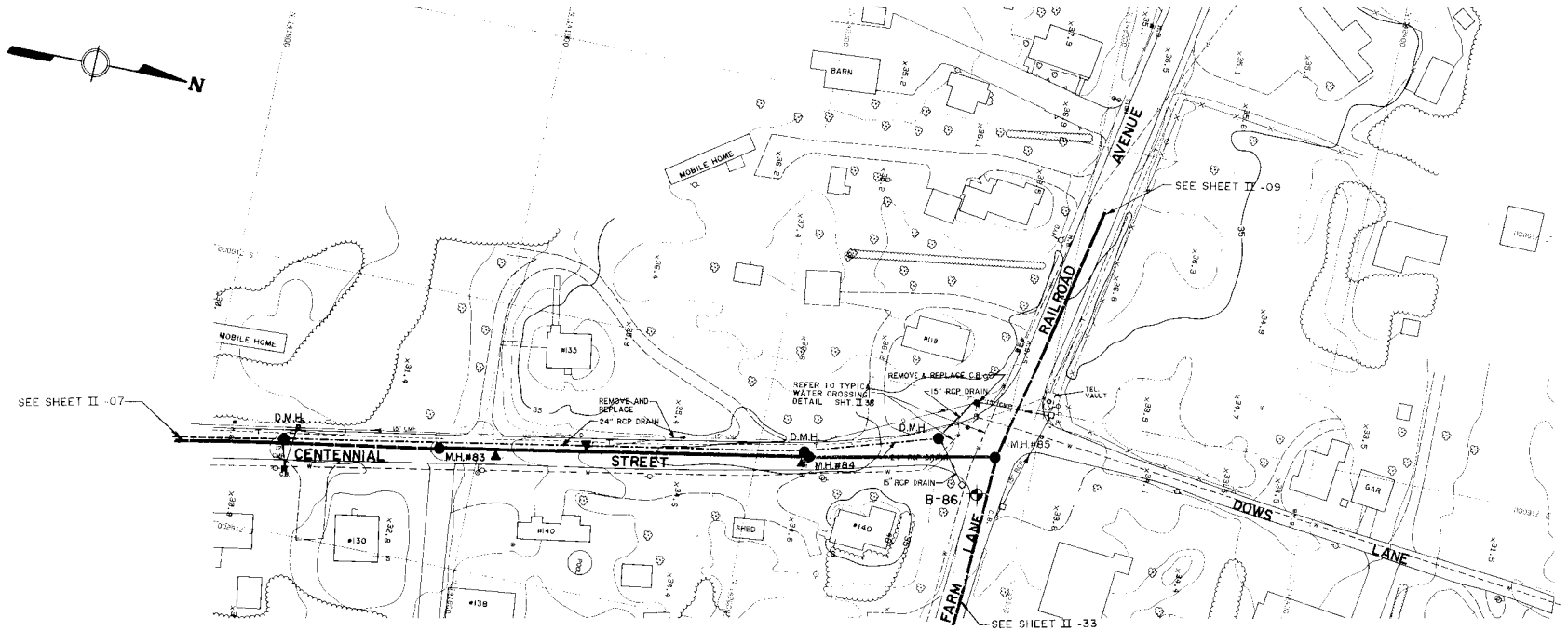
CENTENNIAL STREET

(MANHOLE NO. 80) - (MANHOLE NO. 83)

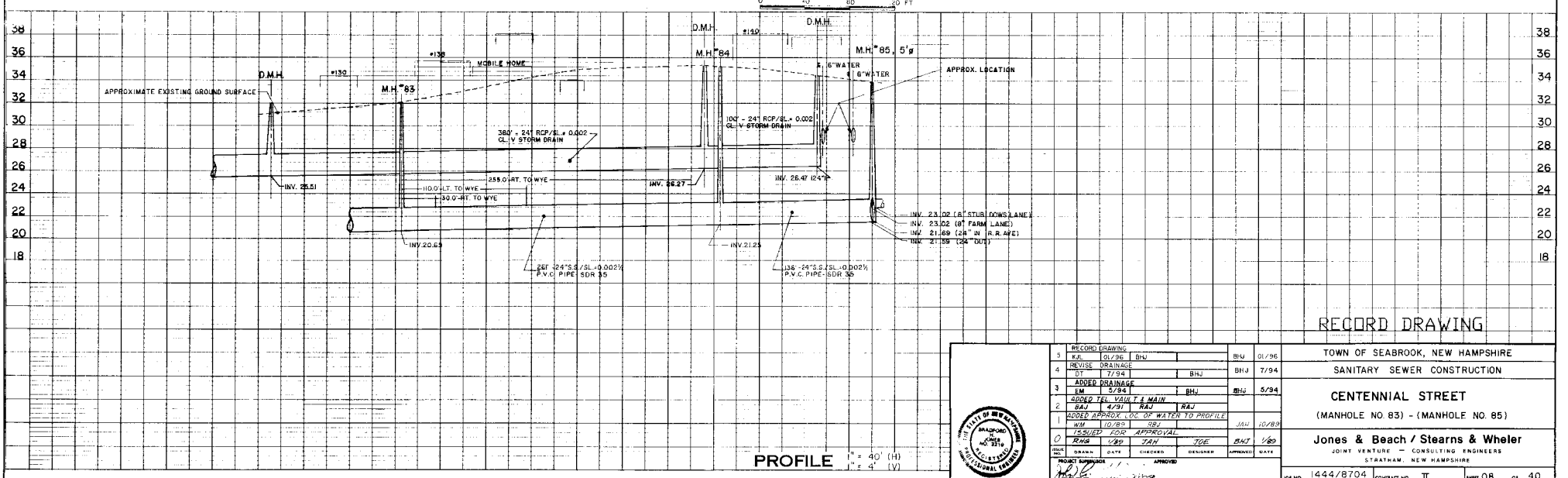
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 07 OF 40

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

5	RECORD DRAWING					BHJ	01/96
	KJL	01/96	BHJ				
4	REVISE DRAINAGE					BHJ	7/94
	DT	7/94		BHJ			
3	ADDED DRAINAGE					BHJ	5/94
	EM	5/94		BHJ			
2	ADDED TEL. VAULT & MAIN						
	BAJ	4/91	RAJ		RAJ		
1	ADDED APPROX. LOC. OF WATER TO PROFILE					JAH	10/89
	WM	10/89	RAJ				
0	ISSUED FOR APPROVAL					BHJ	1/89
	RHS	1/89	JAH		TOE		
ISSUE NO.	DRAWN	DATE	CHECKED		DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

THE STATE OF NEW HAMPSHIRE — BRADFORD H. JONES No. 2219 — REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

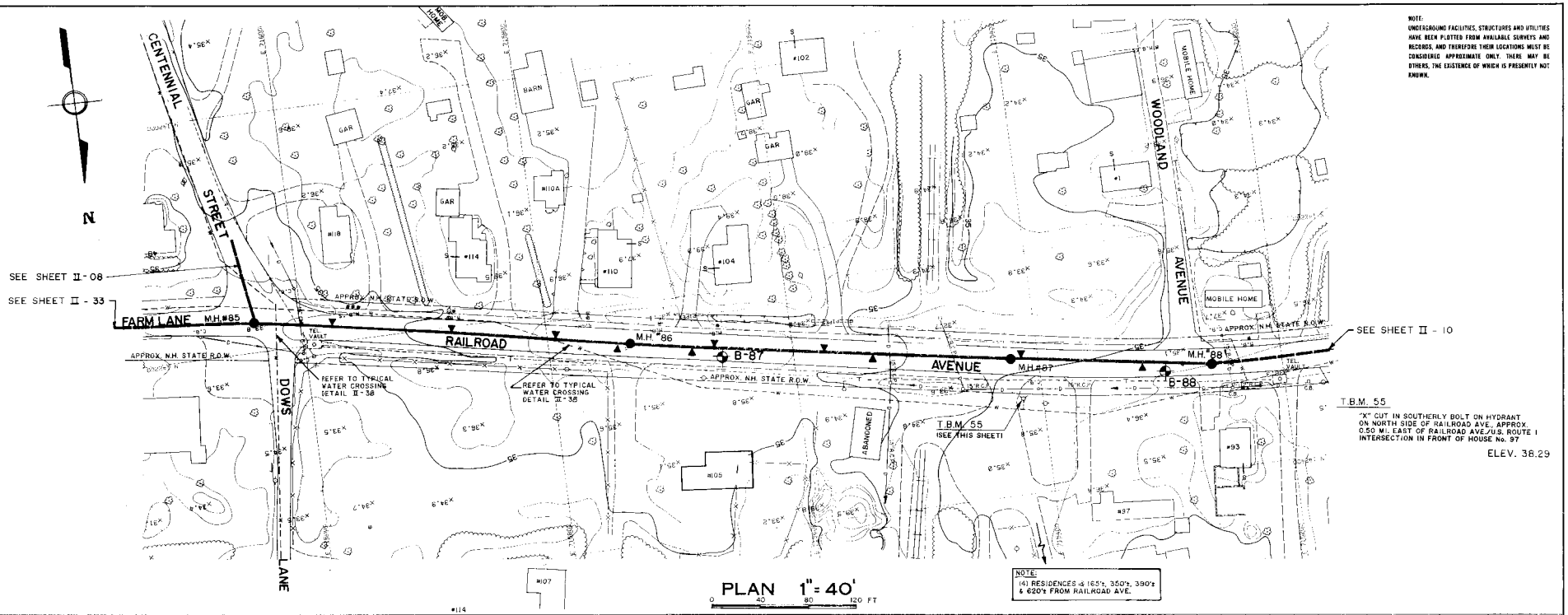
SANITARY SEWER CONSTRUCTION

CENTENNIAL STREET

(MANHOLE NO. 83) - (MANHOLE NO. 85)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 08 OF 40



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

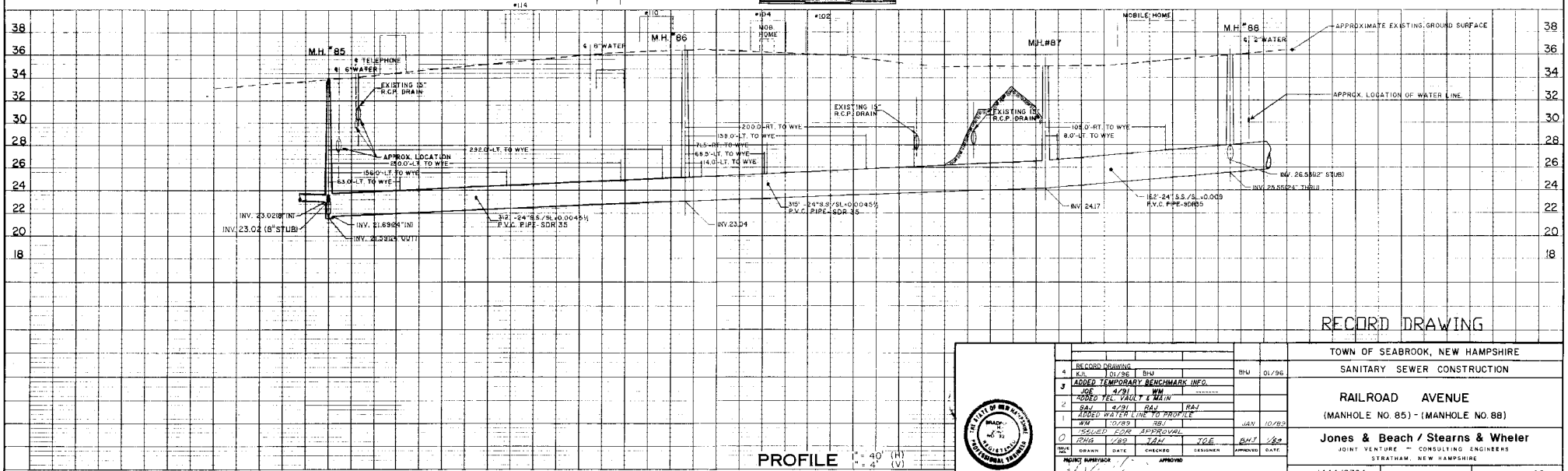
T.B.M. 55

"X" CUT IN SOUTHERLY BOLT ON HYDRANT ON NORTH SIDE OF RAILROAD AVE., APPROX. 0.50 MI. EAST OF RAILROAD AVE./U.S. ROUTE 1 INTERSECTION IN FRONT OF HOUSE No. 97

ELEV. 38.29

NOTE:
(4) RESIDENCES @ 165'±, 350'±, 390'± & 620'± FROM RAILROAD AVE.

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

						BHJ	01/96
4	RECORD DRAWING	KJL	01/96	BHJ			
3	ADDED TEMPORARY BENCHMARK INFO.	JCE	4/91	WM			
2	ADDED TEL. VAULT & MAIN	RAJ	4/91	RAJ	RAJ		
1	ADDED WATER LINE TO PROFILE	WM	10/89	RAJ		JAN	10/89
0	ISSUED FOR APPROVAL	RHG	1/89	JAH	TCE	BHJ	1/89
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

RAILROAD AVENUE

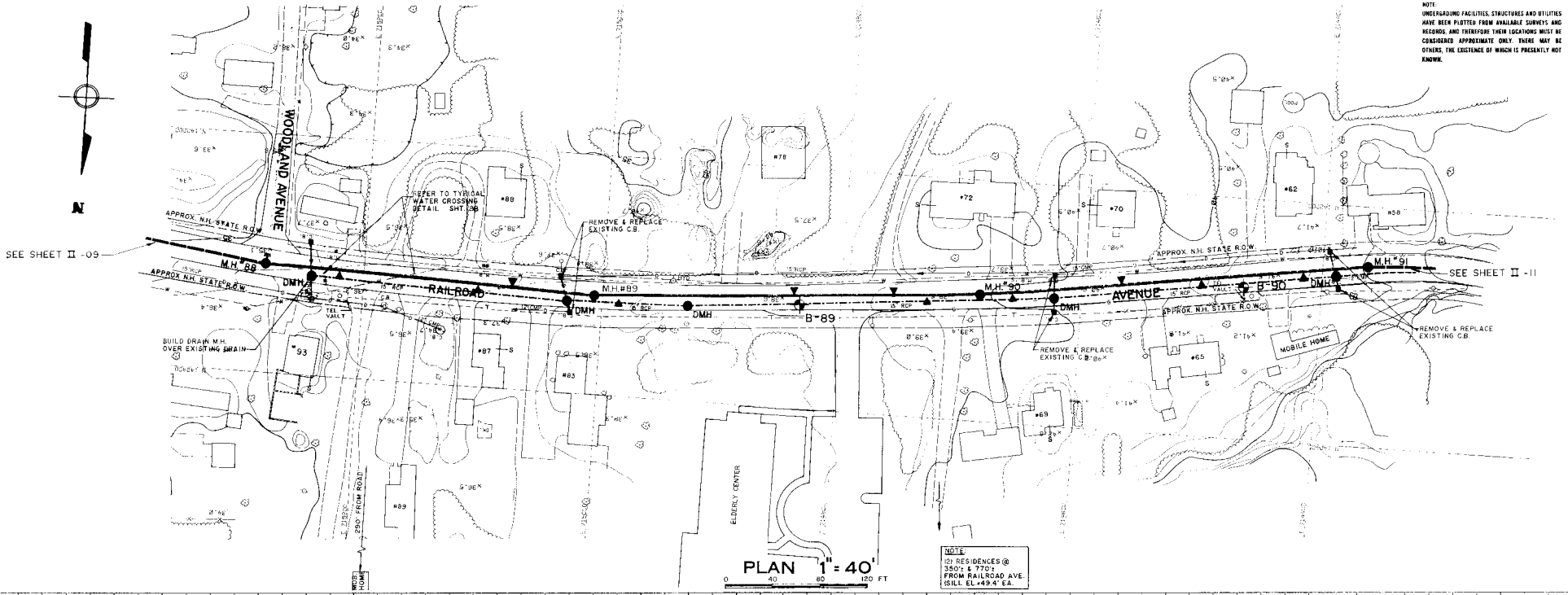
(MANHOLE NO. 85) - (MANHOLE NO. 88)

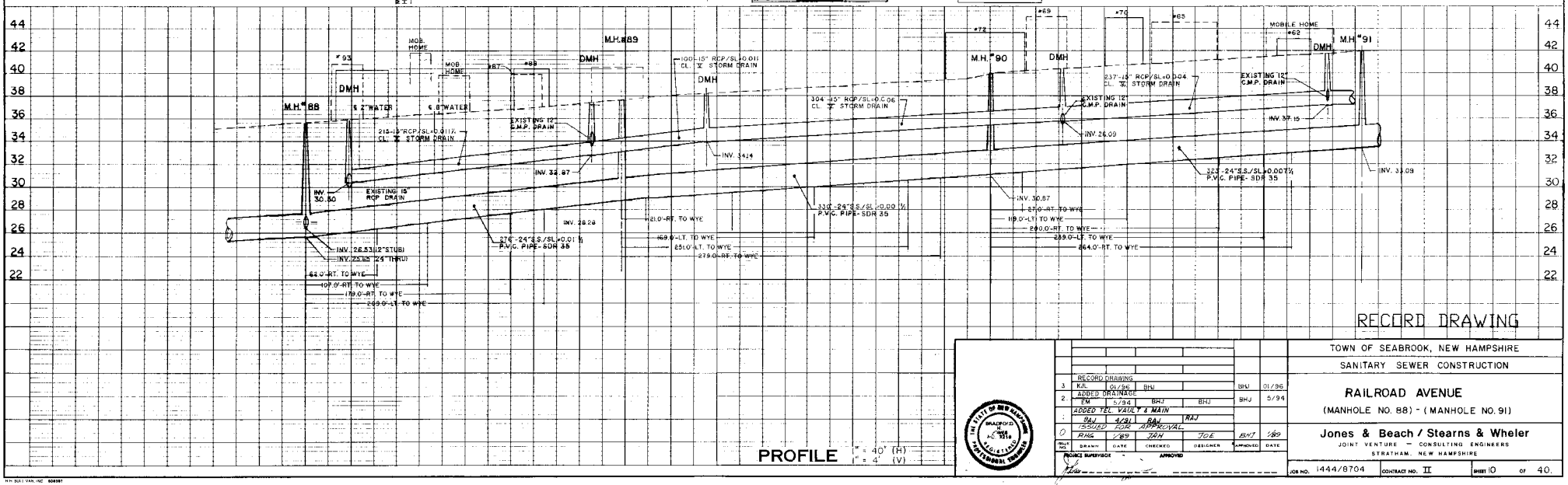
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 09 OF 40

HH SULLIVAN, INC 809387

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.





RECORD DRAWING

3.	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
2.	ADDED DRAINAGE	EM	5/94	BHJ		BHJ	5/94
	ADDED TEL. VAULT & MAIN	BAJ		BAJ		RAJ	
0		ISSUED	4/21/89	FOR	APPROVAL		
		RHG	1/89	JAH		JOE	BHJ 1/89
		DRAWN	DATE	CHECKED		DESIGNER	APPROVED DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

RAILROAD AVENUE

(MANHOLE NO. 88) - (MANHOLE NO. 91)

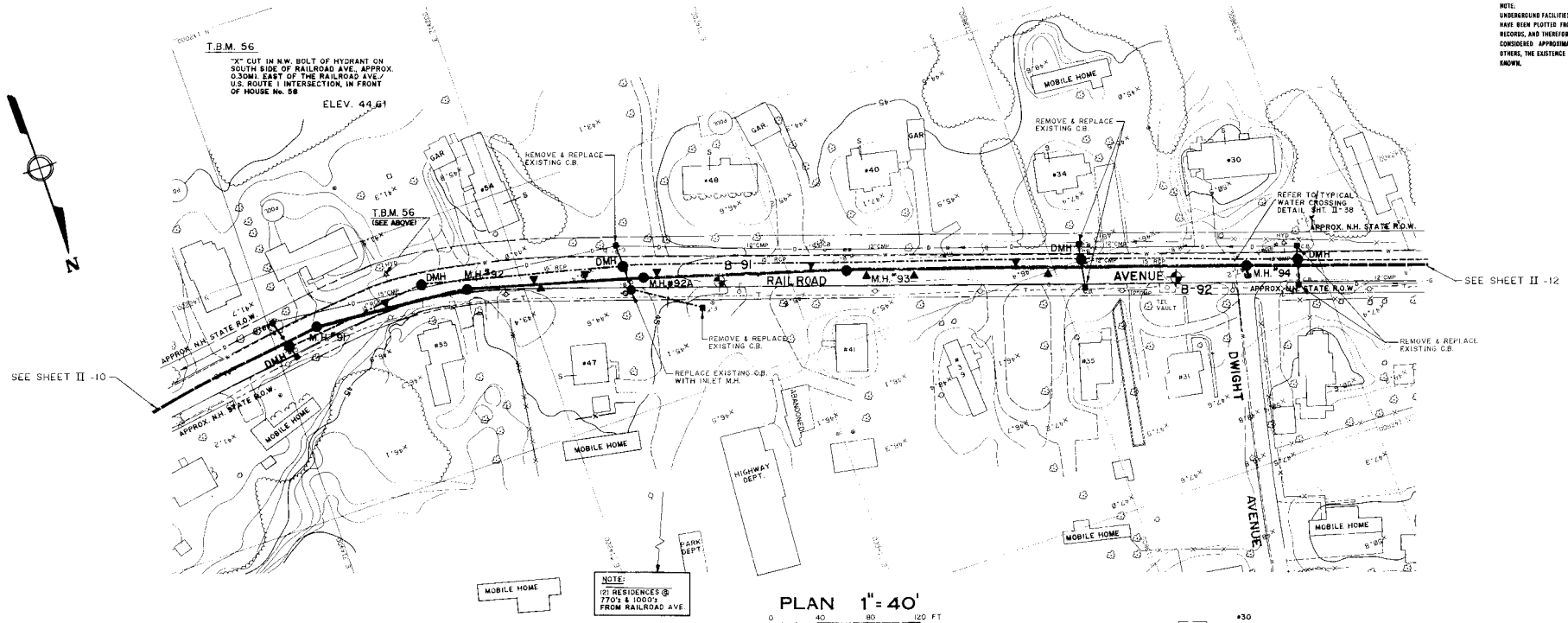
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

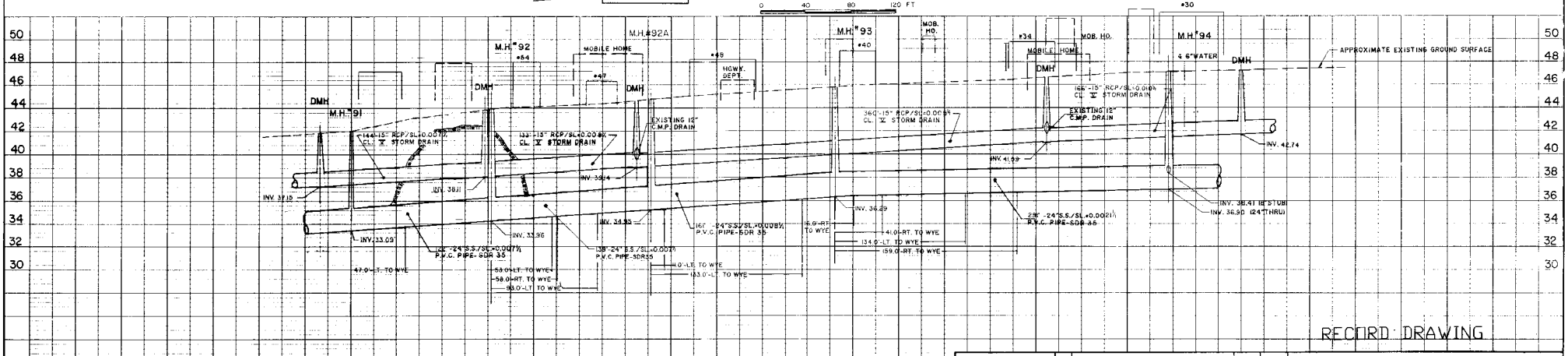
JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 10 OF 40

N.H. SULLIVAN, INC. 508987


T.B.M. 56
"X" CUT IN N.W. BOLT OF HYDRANT ON SOUTH SIDE OF RAILROAD AVE., APPROX. 0.30MI. EAST OF THE RAILROAD AVE./ U.S. ROUTE 1 INTERSECTION, IN FRONT OF HOUSE No. 58
ELEV. 44.61
T.B.M. 56 (SEE ABOVE)
N
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
SEE SHEET II -10
SEE SHEET II -12
APPROX. N.H. STATE R.O.W.
RAILROAD AVENUE
B-91
B-92
M.H. #91
M.H. #92
M.H. #92A
M.H. #93
M.H. #94
DMH
REMOVE & REPLACE EXISTING C.B.
REPLACE EXISTING C.B. WITH INLET M.H.
REFER TO TYPICAL WATER CROSSING DETAIL SHT. II-38
TEL VAULT
DWIGHT AVENUE
MOBILE HOME
HIGHWAY DEPT.
PARK DEPT.
ABANDONED
NOTE: (21) RESIDENCES @ 770'± & 1000'± FROM RAILROAD AVE.

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

4	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
3	ADD DRAINAGE	DRT	5/94	BHJ	BHJ	BHJ	5/94
2	ADDED TEMPORARY BENCHMARK INFO.	JOE	4/91	WM	------		
1	ADDED TEL. VAULT & MAIN	BAJ	4/91	RAL	RAJ		
0	ISSUED FOR APPROVAL	RNS	1/89	JAH	JOE	BHJ	1/89
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SURVEYOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

RAILROAD AVENUE

(MANHOLE NO. 91) - (MANHOLE NO. 94)

Jones & Beach / Stearns & Wheler

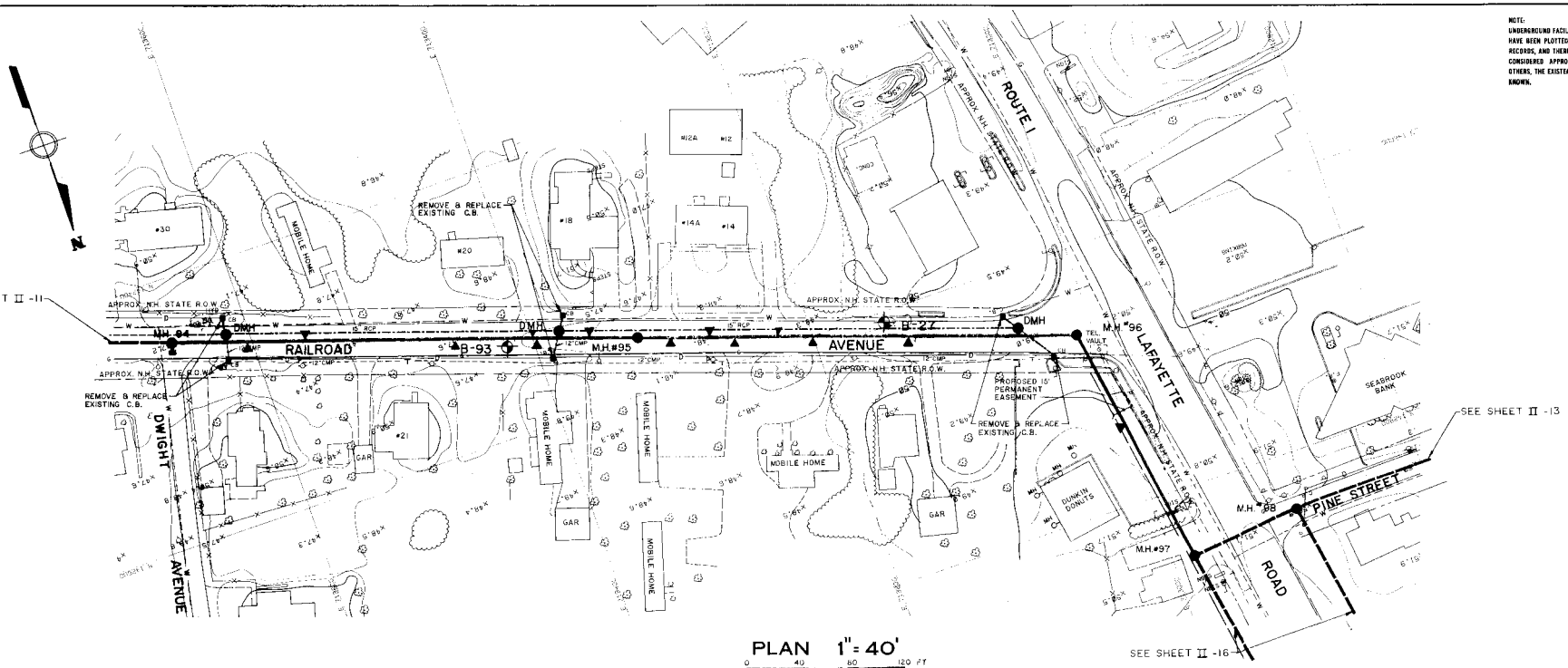
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

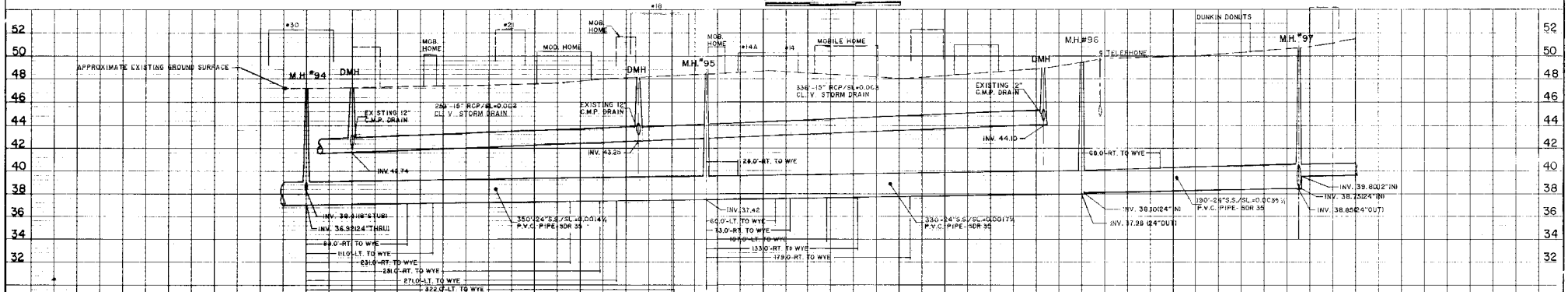
JOB NO. 1444/8704 CONTRACT NO. II SHEET 11 OF 40

H.H. SULLIVAN INC. 800387

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
2	ADD DRAINAGE	DRT	5/94	BHJ	BHJ	BHJ	5/94
1	ADDED TEL VAULT & MAIN	BAJ	4/91	RAJ	RAJ		
0	ISSUED FOR APPROVAL	RHG	1/89	TAH	JGE	BHJ	1/89

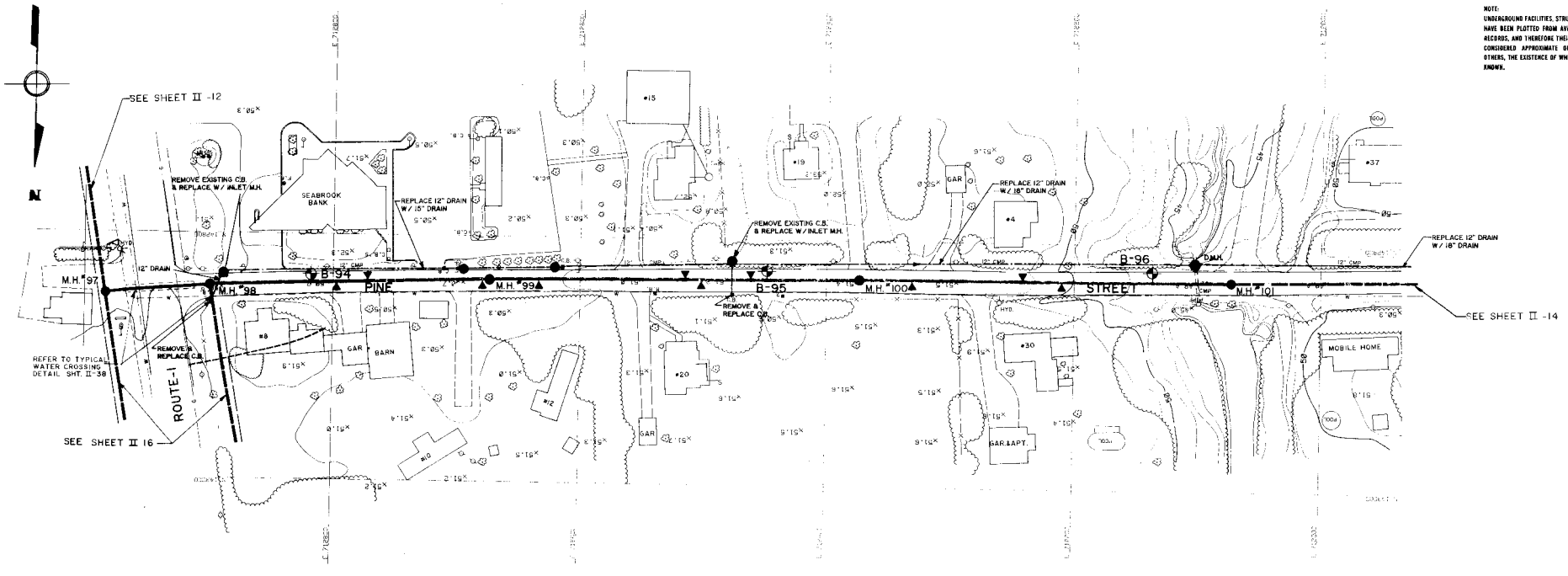
PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
RAILROAD AVENUE AT LAFAYETTE ROAD
(MANHOLE NO. 94) - (MANHOLE NO. 97)

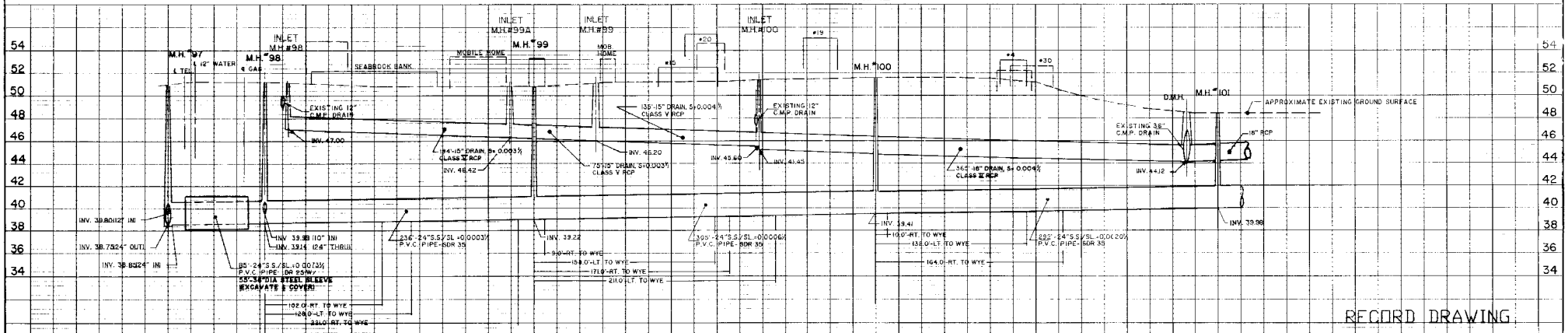
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 12 OF 40

NOTE.
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
3	ADDED DRAINAGE	EM	5/94		BHJ	BHJ	5/94
2	ADDED TEL. MAIN	BAJ	4/91	RAJ	RAJ		
1	REVISED SLOPE BETWEEN M.H. 97 & M.H. 98	WH	10/89	RAJ		JAH	01/89
0	ISSUED FOR APPROVAL	RHG	7/89	JAH	JOE	BHJ	7/89

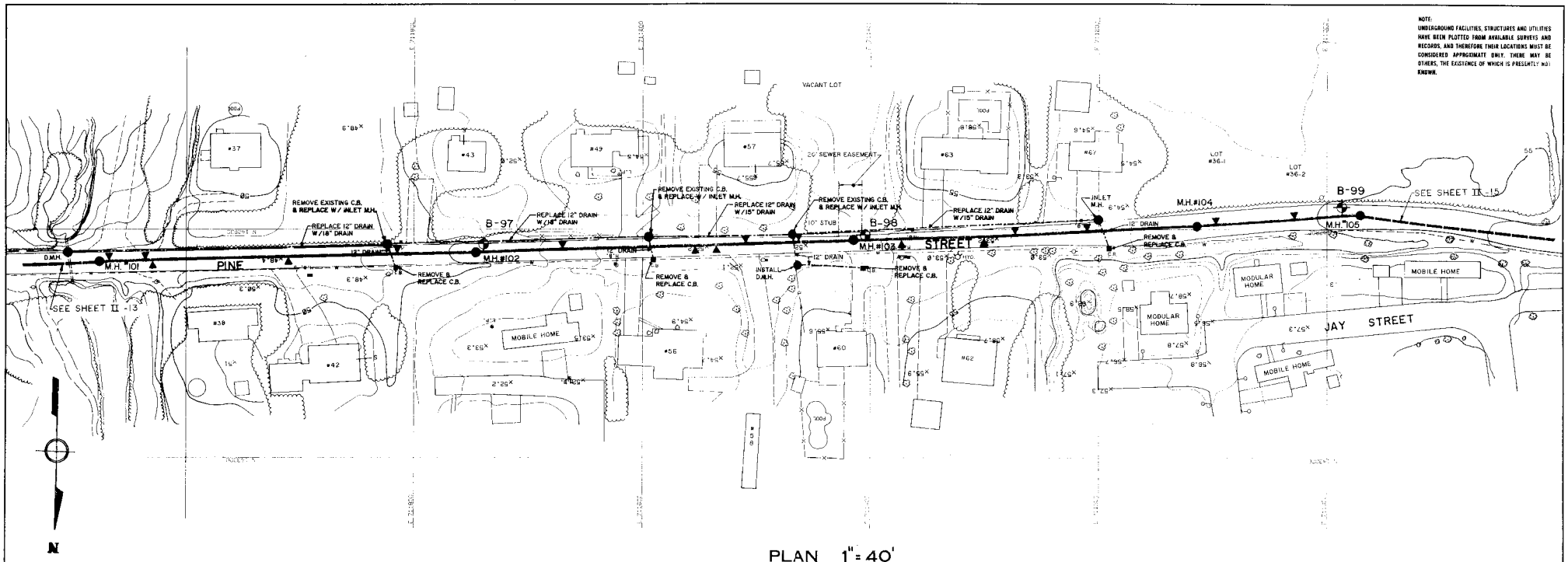
PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
PINE STREET
(MANHOLE NO. 97) - (MANHOLE NO. 101)

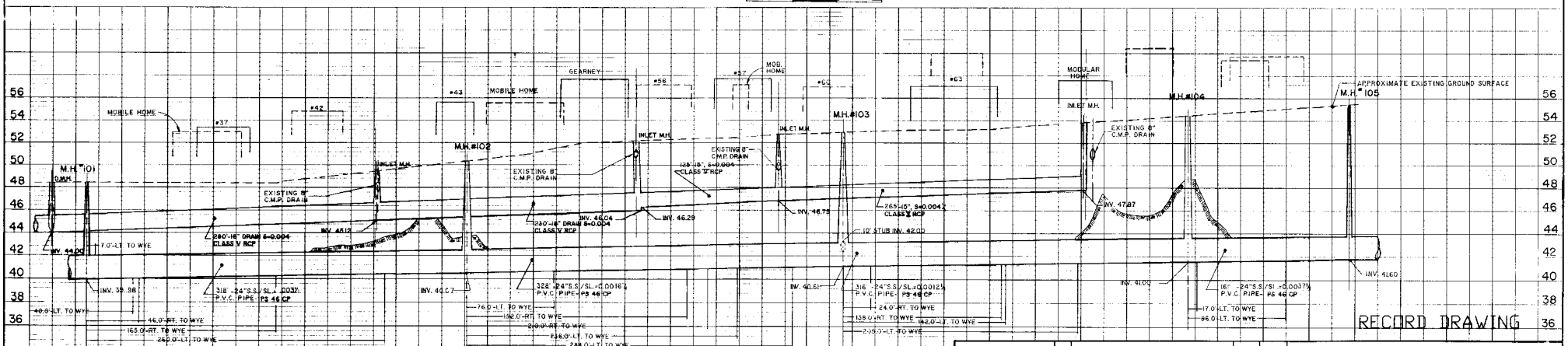
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 13 OF 40

H.H. SULLIVAN INC 509547


NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
PINE STREET
JAY STREET
VACANT LOT
M.H. 101
M.H. #102
M.H. #103
M.H. #104
M.H. #105
B-97
B-98
B-99
SEE SHEET II -13
SEE SHEET II -15
REMOVE EXISTING C.B. & REPLACE W/ INLET M.H.
REPLACE 12" DRAIN W/18" DRAIN
REMOVE EXISTING C.B. & REPLACE W/ INLET M.H.
REPLACE 12" DRAIN W/15" DRAIN
REMOVE EXISTING C.B. & REPLACE W/ INLET M.H.
REPLACE 12" DRAIN W/15" DRAIN
REMOVE & REPLACE C.B.
REMOVE & REPLACE C.B.
REMOVE & REPLACE C.B.
INSTALL D.M.H.
REMOVE & REPLACE C.B.
20' SEWER EASEMENT
10" STUB
12" DRAIN
MOBILE HOME
MODULAR HOME
LOT #36-1
LOT #36-2
N

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

3	RECORD DRAWING				BHJ	01/96
2	REVISE M.H. LOCATION				BHJ	5/95
	WK	5/95	BHJ	BHJ		
1	ADDED DRAINAGE				BHJ	5/94
	EM	5/94		BHJ		
0	ISSUED FOR APPROVAL				BHT	1/93
REVISION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

PINE STREET

(MANHOLE NO. 101) - (MANHOLE NO. 105)

Jones & Beach / Stearns & Wheler

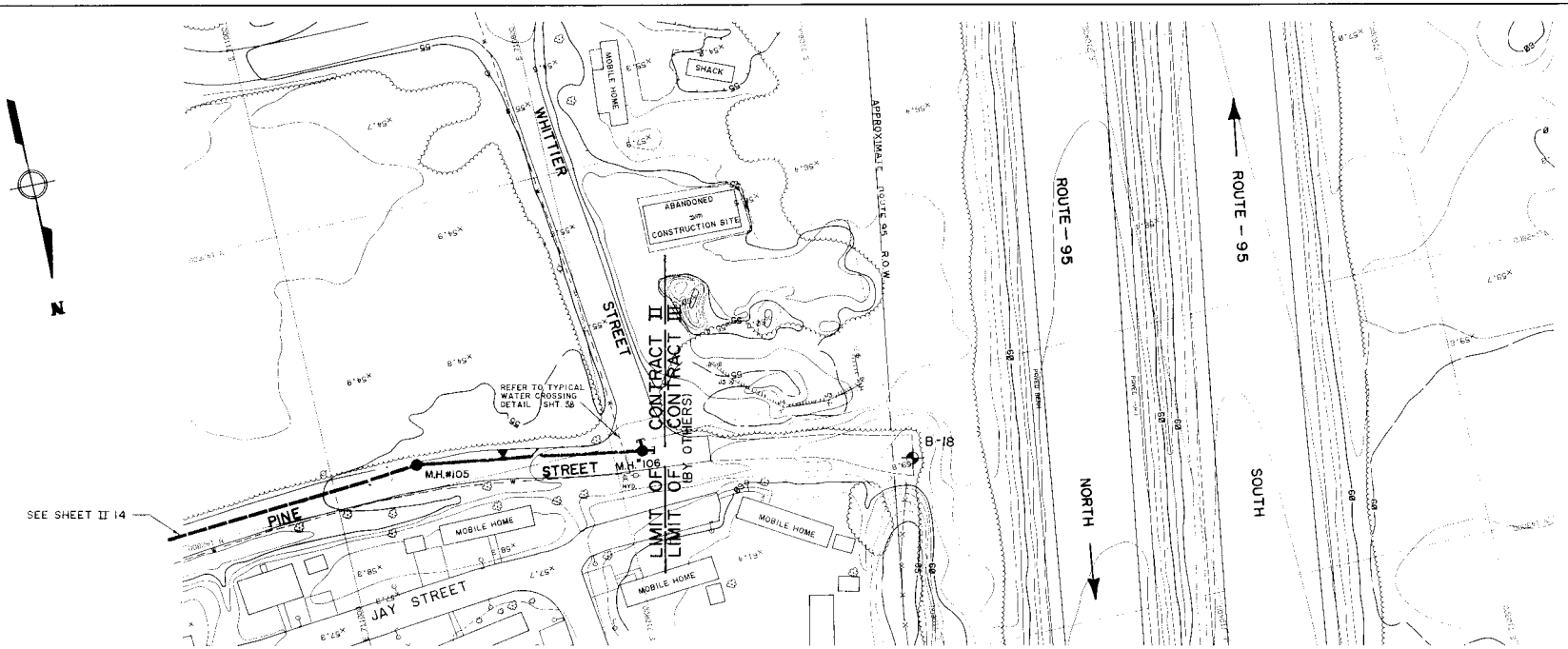
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

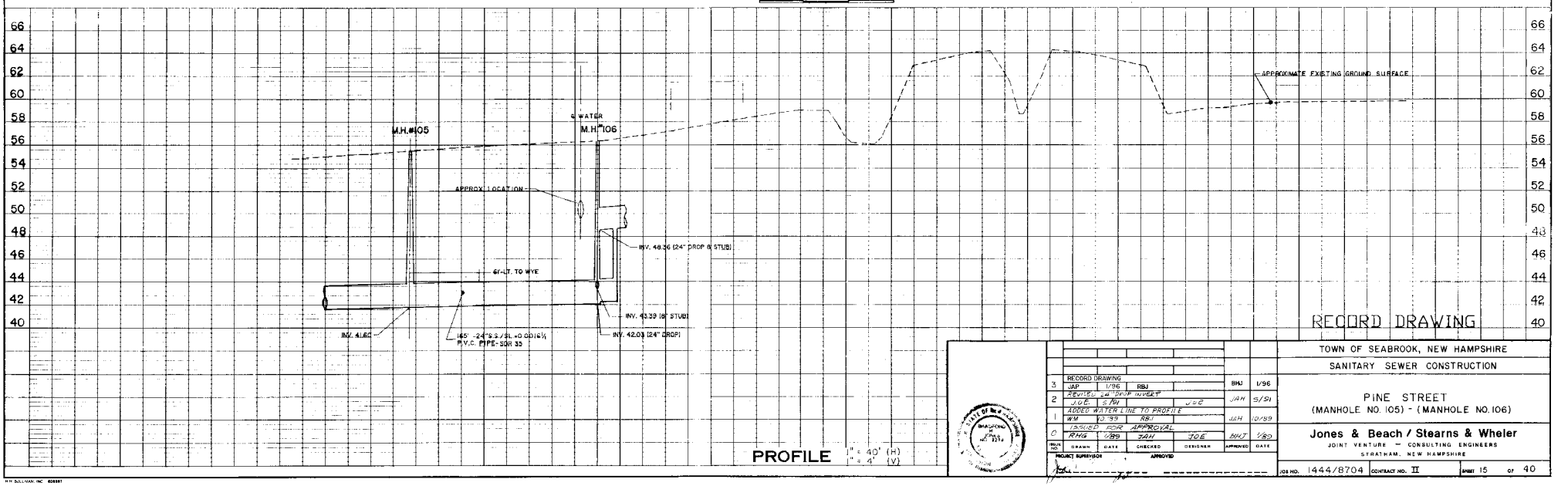
JOB NO. 1444/8704 CONTRACT NO. II SHEET 14 OF 40

H.H. SULLIVAN INC 506887

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	JAP	1/96	RBJ		BHJ	1/96
	RECORD DRAWING					
2	JOE	5/91		JOE	JAH	5/91
	ADDED WATER LINE TO PROFILE					
1	WM	10/89	RBJ		JAH	10/89
	ISSUED FOR APPROVAL					
0	RHG	1/89	JAH	JOE	BHJ	1/89

PROJECT SUPERVISOR APPROVED

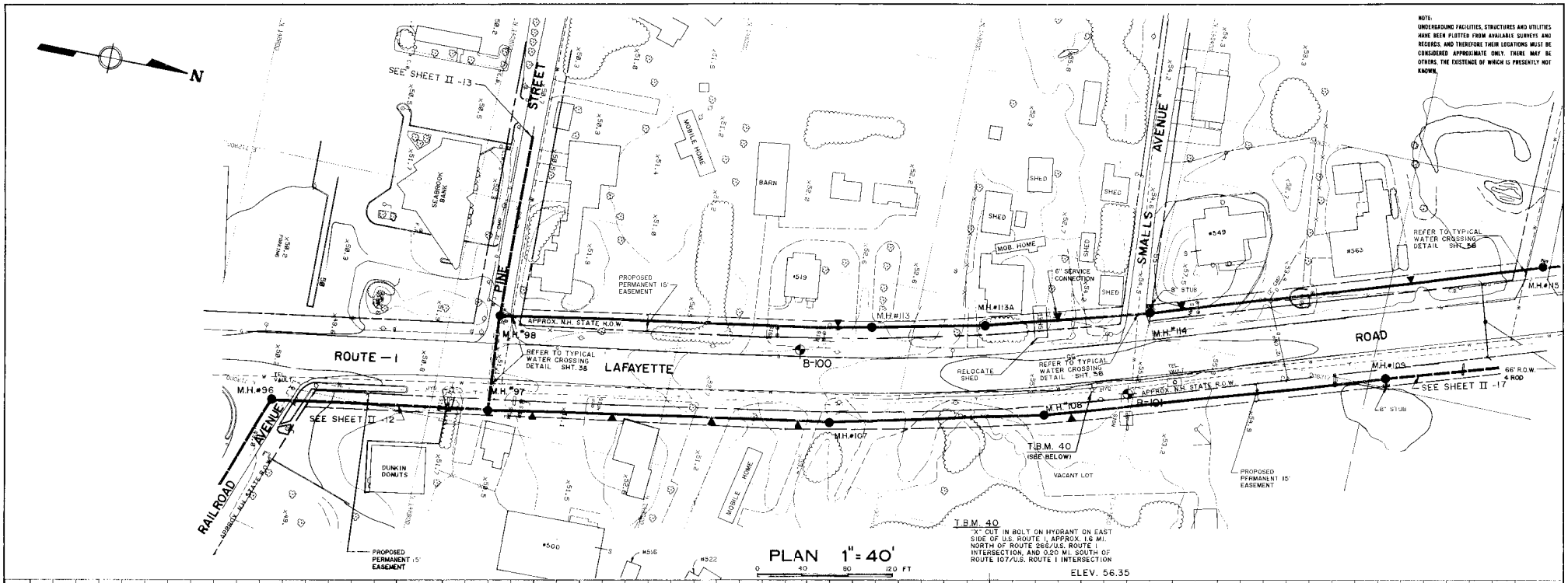
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

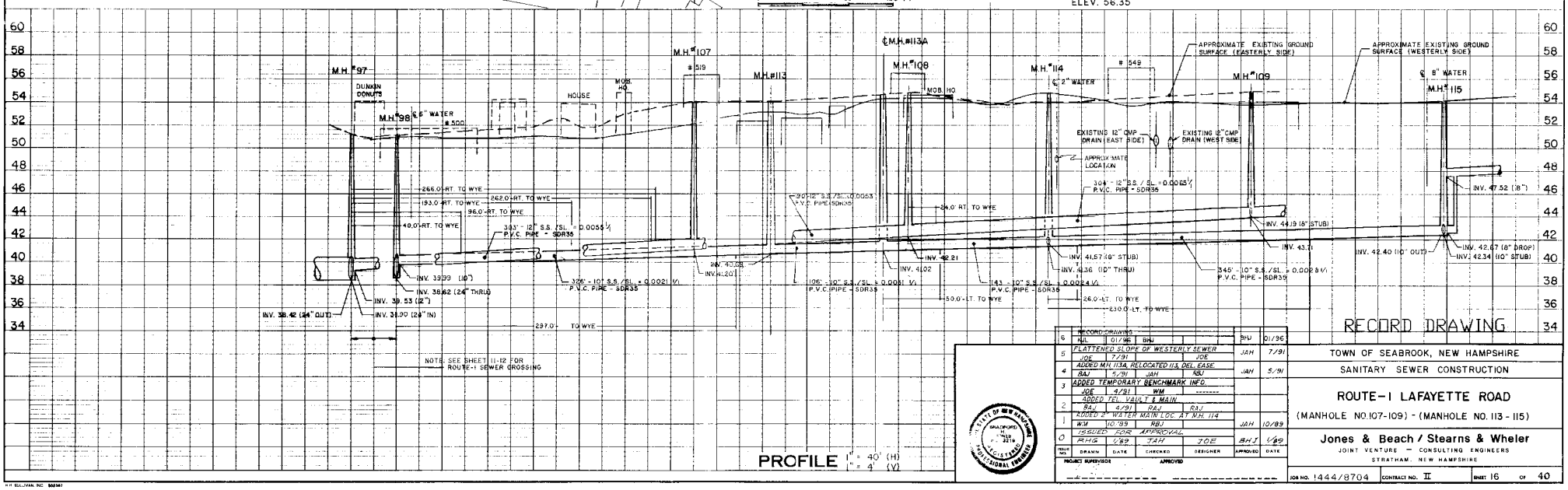
PINE STREET
(MANHOLE NO. 105) - (MANHOLE NO. 106)

Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 15 OF 40

H.H. SULLIVAN, INC. 808697





RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
6	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
5	FLATTENED SLOPE OF WESTERLY SEWER	JOE	7/91	JAH		JAH	7/91
4	ADDED MH.113A, RELOCATED 113, DEL. EASE.	RAJ	5/91	JAH		RBJ	5/91
3	ADDED TEMPORARY BENCHMARK INFO.	JOE	4/91	WM			
2	ADDED TEL. VAULT & MAIN.	RAJ	4/91	RAJ		RAJ	
1	ADDED 2" WATER MAIN LOC. AT M.H. 114	WM	10/89	RBJ		JAH	10/89
0	ISSUED FOR APPROVAL	RMG	1/89	JAH	JOE	BHJ	1/89

PROJECT SUPERVISOR
APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE - 1 LAFAYETTE ROAD

(MANHOLE NO.107-109) - (MANHOLE NO. 113 - 115)

Jones & Beach / Stearns & Wheler

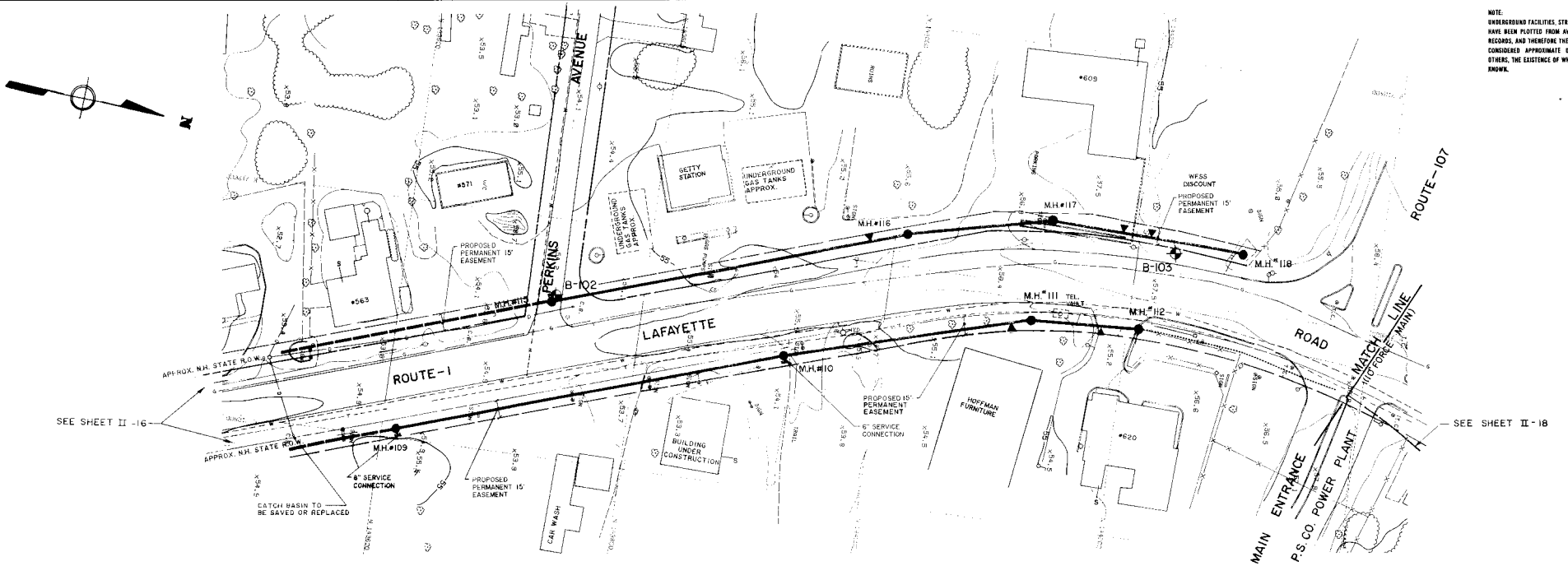
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

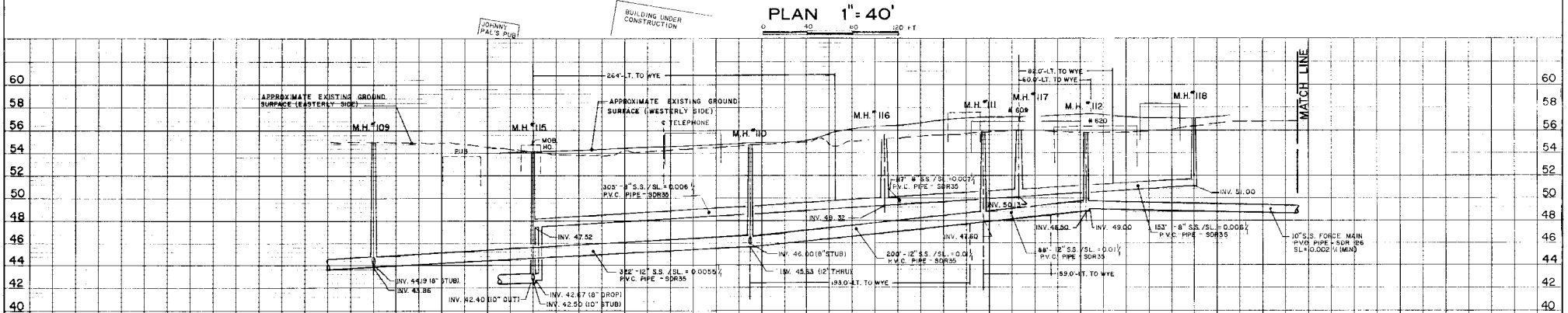
JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 16 OF 40

H.H. SULLIVAN, INC. 882387

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 60 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

6	RECORD DRAWING					BHJ	12/95
	KJL	12/95	BHJ				
	REVISED M.H. #115 INV's						
5	JOE	7/91			JOE	JAH	7/91
4	REV. 8" FORCE MAIN ON M.H. 118				JOE		
	JOE	6/91					
3	REVISED EASEMENTS					JAH	5/91
	RAJ	5/91	JAH		RBJ		
2	ADDED TEL. VAULT & MAIN						
	RAJ	4/91	RAJ		RAJ		
1	CHANGED 8" F.M. TO 10" F.M.						
	WM	4/90	RBJ			JAH	4/90
0	ISSUED FOR APPROVAL						
	RMG	1/90	JAH		JOE	BHJ	1/90
ISSUE NO.	DRAWN	DATE	CHECKED		DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

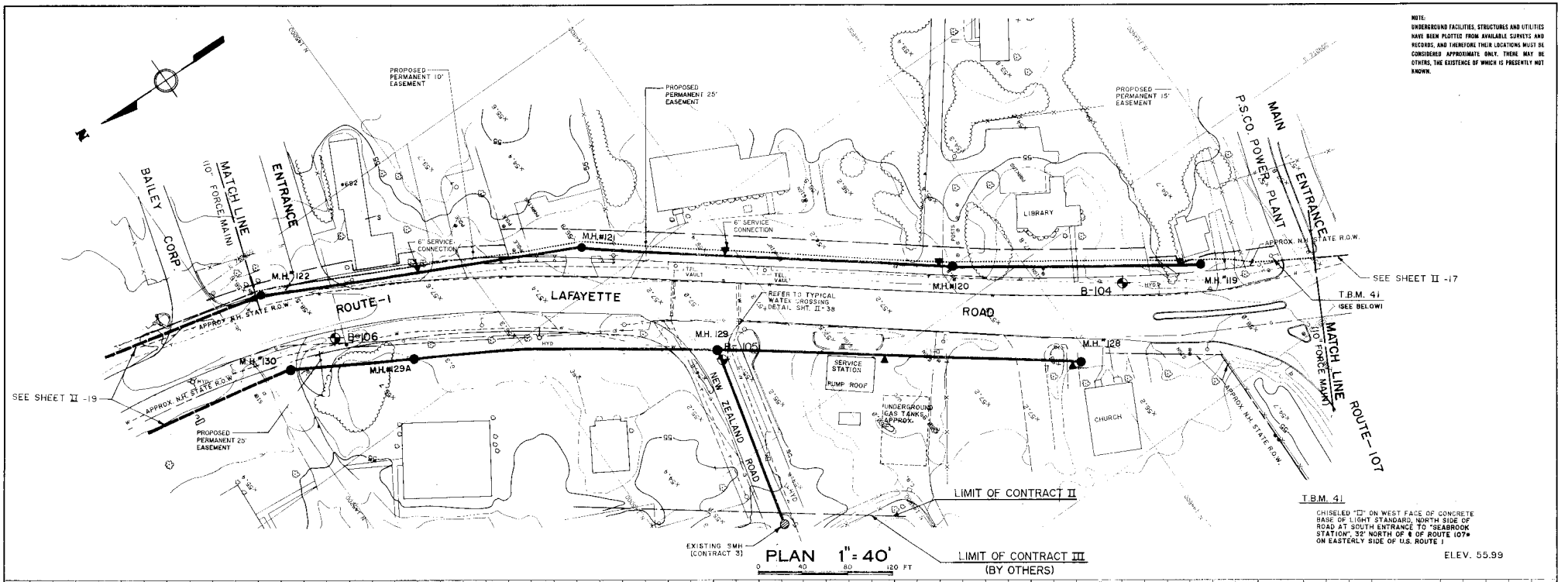
ROUTE-1 LAFAYETTE ROAD

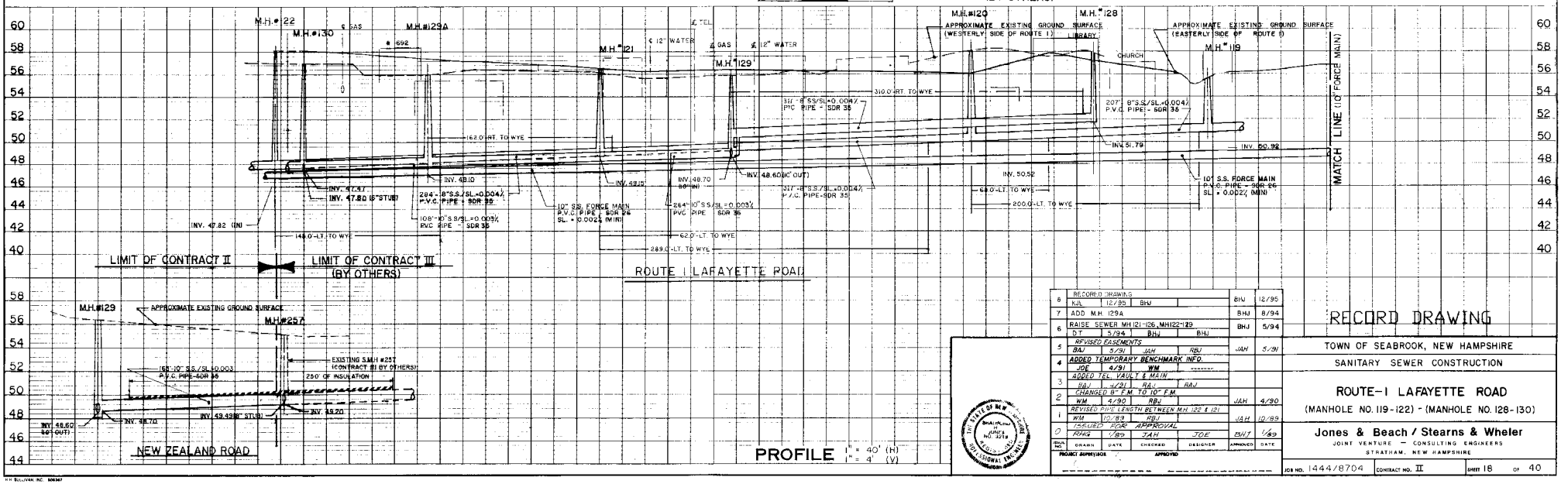
(MANHOLE NO. 109-112) - (MANHOLE NO. 115-118)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 17 OF 40

P.H. SULLIVAN INC. 800887





8	RECORD DRAWING					BHJ	12/95
7	ADD M.H. 129A	KJL	12/95	BHJ		BHJ	8/94
6	RAISE SEWER MH 121-126, MH122-129	DT	5/94	BHJ	BHJ	BHJ	5/94
5	REVISED EASEMENTS	BAJ	5/91	JAH	RBJ	JAH	5/91
4	ADDED TEMPORARY BENCHMARK INFO.	JOE	4/91	WM	-------		
3	ADDED TEL. VAULT & MAIN	BBJ	1/91	RAJ	RAJ		
2	CHANGED 9" F.M. TO 10" F.M.	WM	4/90	RBJ		JAH	4/90
1	REVISED PIPE LENGTH BETWEEN M.H. 122 & 121	WM	10/89	RBJ		JAH	10/89
0	ISSUED FOR APPROVAL	RHG	1/89	JAH	JOE	BHJ	1/89
REVN. NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

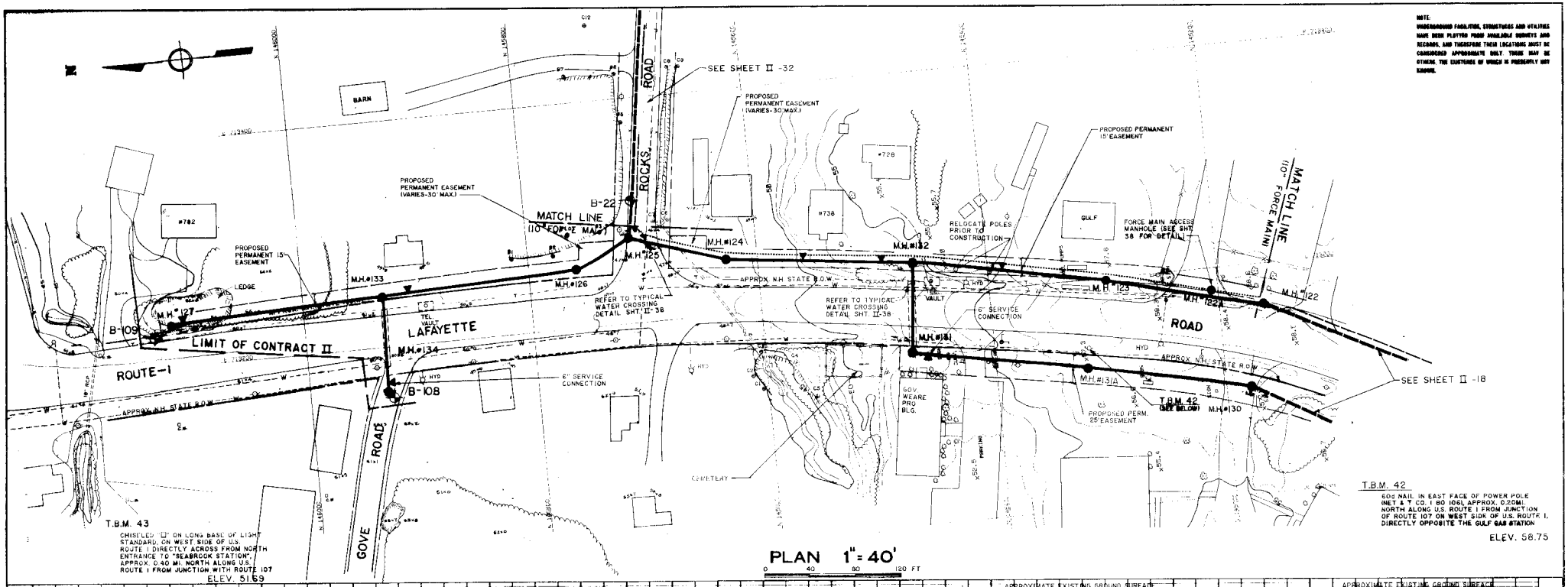
ROUTE-1 LAFAYETTE ROAD

(MANHOLE NO. 119-122) - (MANHOLE NO. 128-130)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

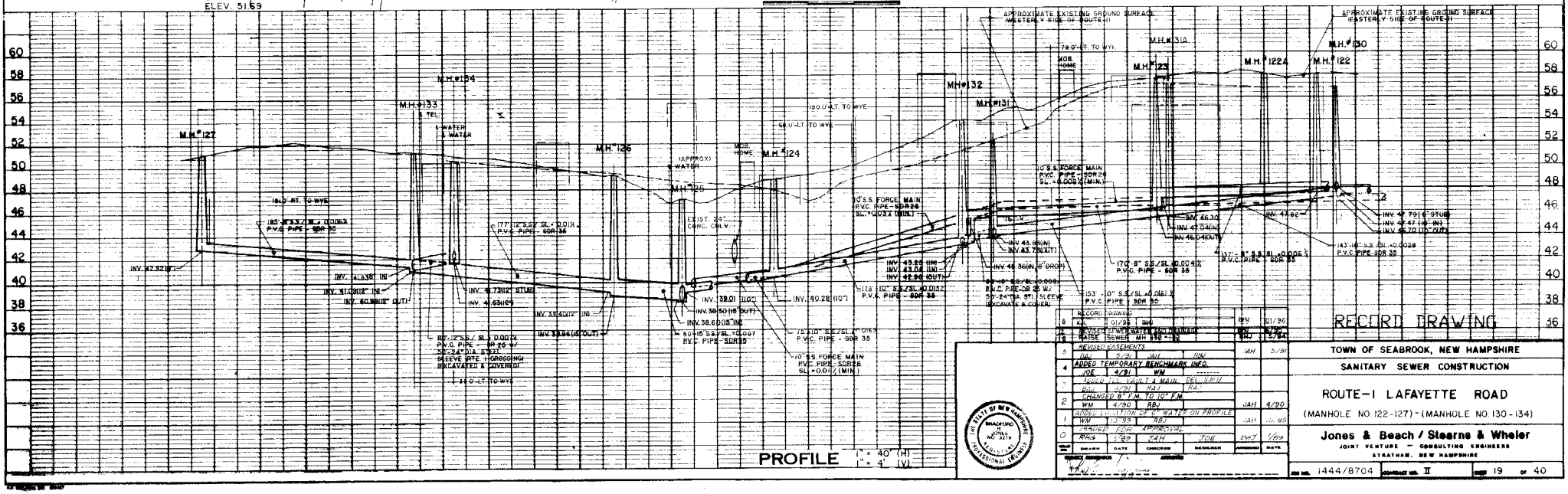
JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 18 OF 40

H.H. SULLIVAN, INC. 606947


NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
SEE SHEET II -32
PROPOSED PERMANENT EASEMENT (VARIES-30' MAX.)
PROPOSED PERMANENT 15' EASEMENT
MATCH LINE (10" FORCE MAIN)
ROCKS ROAD
BARN
#702
#728
#738
GULF
RELOCATE POLES PRIOR TO CONSTRUCTION
FORCE MAIN ACCESS MANHOLE (SEE SHT. 58 FOR DETAIL)
MATCH LINE 10" FORCE MAIN
B-22
B-109
B-108
M.H.#127
M.H.#126
M.H.#125
M.H.#124
M.H.#133
M.H.#132
M.H.#131
M.H.#131A
M.H.#122A
M.H.#122
M.H.#130
M.H.#134
LEDGE
LIMIT OF CONTRACT II
ROUTE-1
LAFAYETTE ROAD
APPROX. N.H. STATE R.O.W.
REFER TO TYPICAL WATER CROSSING DETAIL SHT. II-38
6" SERVICE CONNECTION
GOV. WEARE PRO BLG.
PROPOSED PERM. 25' EASEMENT
CEMETERY
GOVE ROAD
SEE SHEET II -18
T.B.M. 42
60d NAIL IN EAST FACE OF POWER POLE (NET X Y CO. I 80 1061, APPROX. 0.20MI. NORTH ALONG U.S. ROUTE 1 FROM JUNCTION OF ROUTE 107 ON WEST SIDE OF U.S. ROUTE 1, DIRECTLY OPPOSITE THE GULF GAS STATION
ELEV. 58.75
T.B.M. 43
CHISELED "D" ON LONG BASE OF LIGHT STANDARD, ON WEST SIDE OF U.S. ROUTE 1 DIRECTLY ACROSS FROM NORTH ENTRANCE TO "SEABROOK STATION", APPROX. 0.40 MI. NORTH ALONG U.S. ROUTE 1 FROM JUNCTION WITH ROUTE 107
ELEV. 51.69

PLAN 1" = 40'

0 40 80 120 FT


APPROXIMATE EXISTING GROUND SURFACE (WESTERLY SIDE OF ROUTE-1)
APPROXIMATE EXISTING GROUND SURFACE (EASTERLY SIDE OF ROUTE-1)
M.H.#127
M.H.#134
M.H.#133
M.H.#126
M.H.#125
M.H.#124
M.H.#132
M.H.#131
M.H.#131A
M.H.#123
M.H.#1224
M.H.#122
M.H.#130
MOB. HOME
180.0'-LT. TO WYE
78.0'-LT. TO WYE
60.0'-LT. TO WYE
EXIST. 24" CONC. CULV.
8" S.S. FORCE MAIN PVC. PIPE - SDR26 SL.=0.003 X (MIN.)
6" S.S. FORCE MAIN PVC. PIPE - SDR26 SL.=0.003 X (MIN.)
185'-8" S.S./SL.=0.004 X P.V.C. PIPE - SDR 35
177'-12" S.S./ SL.=0.01X P.V.C. PIPE - SDR 35
178'-10" S.S./SL.=0.01X2 P.V.C. PIPE - SDR 35
153'-10" S.S./SL.=0.061 X P.V.C. PIPE - SDR 35
143'-10" S.S./SL.=0.0028 P.V.C. PIPE SDR 35
137'-8" S.S./SL.=0.006 X P.V.C. PIPE - SDR 35
170'-8" S.S./SL.=0.004X P.V.C. PIPE - SDR 35
80'-10" S.S./SL.=0.008 P.V.C. PIPE-DR 25 W/ 5'-24"DIA. S.S.M.H. (EXCAVATE & COVER)
80'-12" S.S./SL.=0.009 P.V.C. PIPE - SDR 35 SLEEVE PIPE (CROSSING EXCAVATED & COVERED)
50'-15" S.S./SL.=0.007 P.V.C. PIPE - SDR35
75'-10" S.S./SL.=0.01X P.V.C. PIPE - SDR 35
10" S.S. FORCE MAIN PVC. PIPE - SDR26 SL.=0.01 X (MIN.)
INV. 47.52 (IN)
INV. 41.63 (IN)
INV. 41.53 (OUT)
INV. 41.38 (IN)
INV. 41.73 (OUT)
INV. 41.63 (OUT)
INV. 39.01 (IN)
INV. 38.60 (15" OUT)
INV. 38.50 (18" OUT)
INV. 40.28 (IN)
INV. 43.25 (IN)
INV. 43.08 (IN)
INV. 42.96 (OUT)
INV. 46.36 (IN) 8" DROP
INV. 43.68 (IN)
INV. 43.79 (OUT)
INV. 46.30
INV. 47.84 (IN)
INV. 46.04 (OUT)
INV. 47.82
INV. 47.79 (6" STUB)
INV. 47.47 (10" IN)
INV. 46.70 (10" OUT)
PROFILE (1" = 40' (H) 1" = 4' (V))

RECORD DRAWING

NO.	REVISIONS	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
8	RECORD DRAWING					RBJ	01/96
7	REVISED SEWER, WATER AND DRAINAGE	RHS	1/89	JAH	JOE	RBJ	8/94
6	REVISED EASEMENTS	RAL	5/91	JAH	RBJ	JAH	5/91
5	ADDED TEMPORARY BENCHMARK INFO.	JOE	4/91	WM			
4	ADDED LOCATION OF VAULT & MAIN, DEL. SHT.	RBJ	1/91	RAL	RAL		
3	CHANGED 8" F.M. TO 10" F.M.	WM	4/90	RBJ		JAH	4/90
2	ADDED LOCATION OF PROFILE	WM	10/89	RBJ		JAH	10/89
1	ISSUED FOR APPROVAL	RHS	1/89	JAH	JOE	PWJ	1/89
0		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE-1 LAFAYETTE ROAD

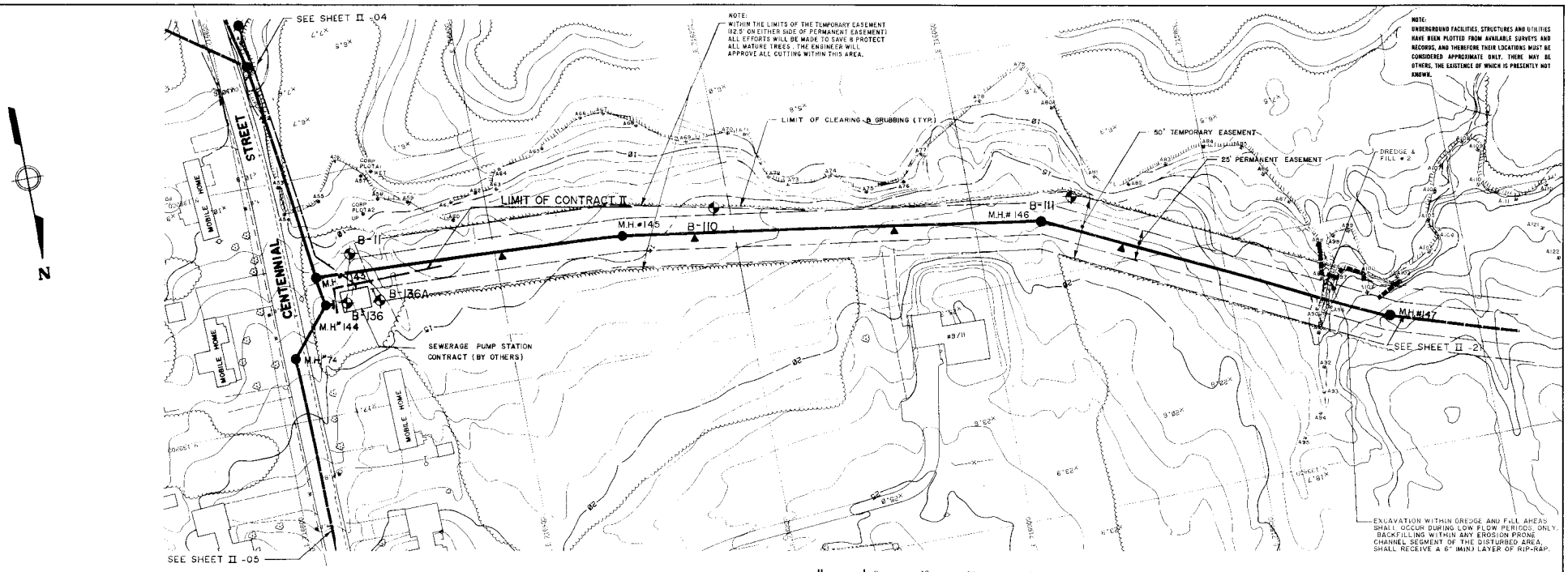
(MANHOLE NO. 122-127) - (MANHOLE NO. 130-134)

Jones & Beach / Stearns & Wheler

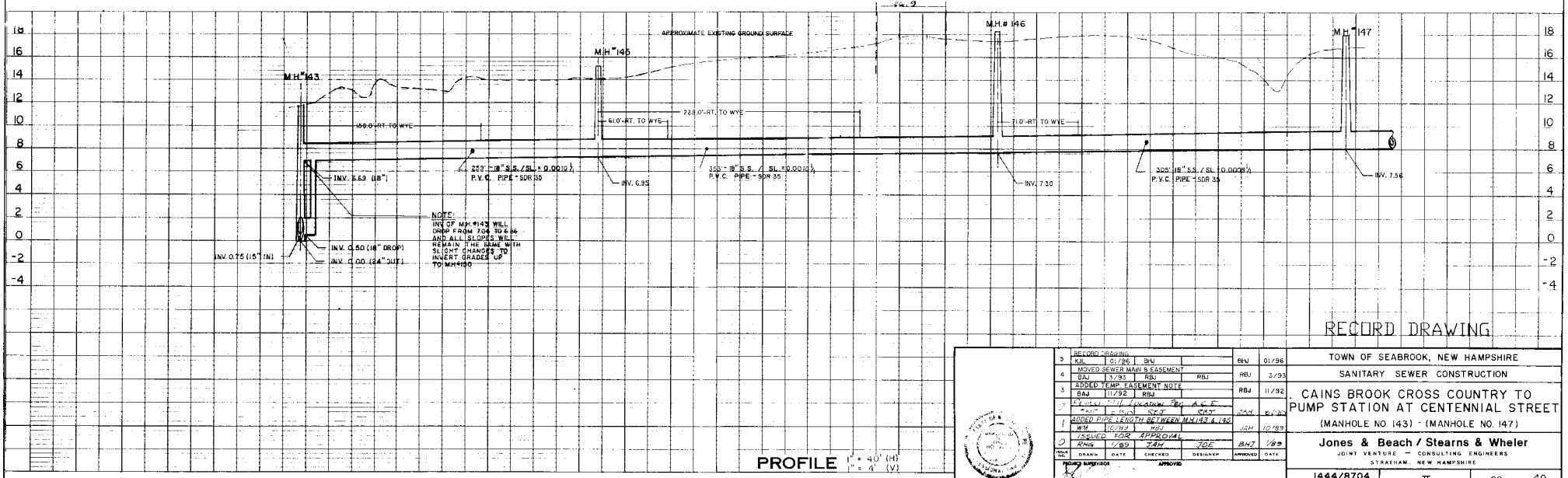
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 19 OF 40


SEE SHEET II -04
CENTENNIAL STREET
MOBILE HOME
MOBILE HOME
MOBILE HOME
NOTE:
WITHIN THE LIMITS OF THE TEMPORARY EASEMENT (12.5' ON EITHER SIDE OF PERMANENT EASEMENT) ALL EFFORTS WILL BE MADE TO SAVE & PROTECT ALL MATURE TREES. THE ENGINEER WILL APPROVE ALL CUTTING WITHIN THIS AREA.
LIMIT OF CLEARING & GRUBBING (TYP.)
LIMIT OF CONTRACT II
50' TEMPORARY EASEMENT
25' PERMANENT EASEMENT
DREDGE & FILL # 2
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
M.H.#145
M.H.#146
M.H.#147
M.H.#143
M.H.#144
M.H."74
B-11
B-110
B-111
B-136A
B-136
SEWERAGE PUMP STATION CONTRACT (BY OTHERS)
SEE SHEET II -05
SEE SHEET II -21
EXCAVATION WITHIN DREDGE AND FILL AREAS SHALL OCCUR DURING LOW FLOW PERIODS ONLY. BACKFILLING WITHIN ANY EROSION PRONE CHANNEL SEGMENT OF THE DISTURBED AREA, SHALL RECEIVE A 6" (MIN.) LAYER OF RIP-RAP.
N

PLAN 1" = 40' 0 40 80 100 FT


APPROXIMATE EXISTING GROUND SURFACE
M.H."143
M.H."145
M.H.# 146
M.H."147
160.0'-RT. TO WYE
61.0'-RT. TO WYE
228.0'-RT. TO WYE
71.0'-RT. TO WYE
INV. 5.69 (18")
252'-18" S.S. / SL.=0.0010'/'
P.V.C. PIPE - SDR 35
INV. 6.95
355'-18" S.S. / SL.=0.0010'/'
P.V.C. PIPE - SDR 35
INV. 7.30
305'-18" S.S. / SL.=0.0008'/'
P.V.C. PIPE - SDR 35
INV. 7.56
NOTE:
INV. OF MH.#143 WILL DROP FROM 7.04 TO 6.86 AND ALL SLOPES WILL REMAIN THE SAME WITH SLIGHT CHANGES TO INVERT GRADES UP TO MH.#130
INV. 0.75 (15" IN)
INV. 0.50 (18" DROP)
INV. 0.00 (24" OUT)

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

5	RECORD DRAWING	KJL	01/96	BHJ	BHJ	01/96
4	MOVED SEWER MAIN & EASEMENT	BAJ	3/93	RBJ	RBJ	3/93
3	ADDED TEMP. EASEMENT NOTE	BAJ	11/92	RBJ	RBJ	11/92
2	REVISED LOCATION TO A.C.E.	MAT	6/90	SKT	SKT	JAH	8/90
1	ADDED PIPE LENGTH BETWEEN M.H.143 & 144	MH	10/89	HDT		JAH	10/89
0	ISSUED FOR APPROVAL	RMG	1/89	TAH	JOE	BHJ	1/89
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CAINS BROOK CROSS COUNTRY TO PUMP STATION AT CENTENNIAL STREET

(MANHOLE NO. 143) - (MANHOLE NO. 147)

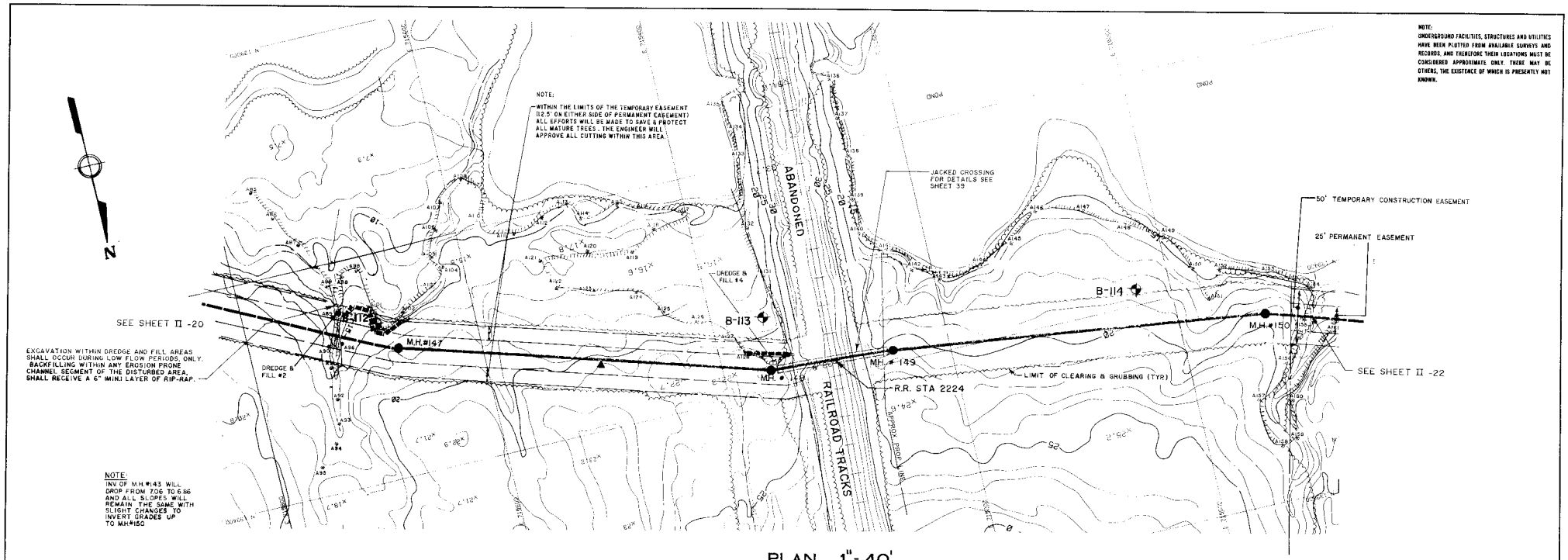
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 20 OF 40

N.H. SULLIVAN INC 509367


NOTE:
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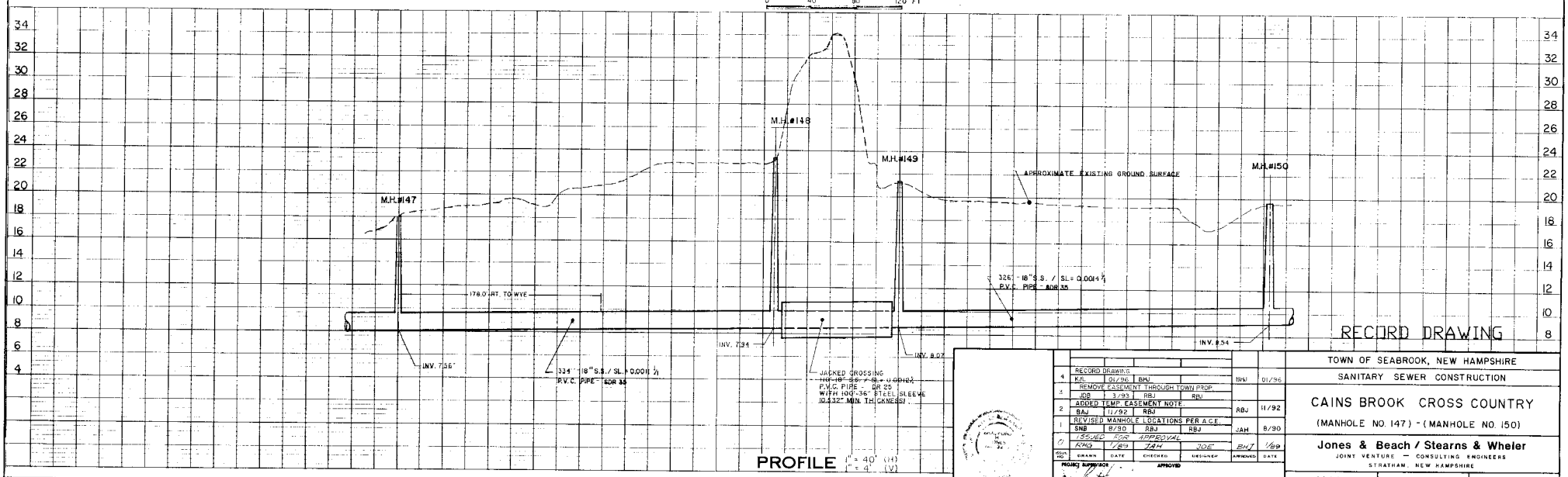
N
NOTE:
WITHIN THE LIMITS OF THE TEMPORARY EASEMENT (12.5' ON EITHER SIDE OF PERMANENT EASEMENT) ALL EFFORTS WILL BE MADE TO SAVE & PROTECT ALL MATURE TREES. THE ENGINEER WILL APPROVE ALL CUTTING WITHIN THIS AREA.
ABANDONED
RAILROAD TRACKS
JACKED CROSSING FOR DETAILS SEE SHEET 39
50' TEMPORARY CONSTRUCTION EASEMENT
25' PERMANENT EASEMENT
SEE SHEET II -20
SEE SHEET II -22
EXCAVATION WITHIN DREDGE AND FILL AREAS SHALL OCCUR DURING LOW FLOW PERIODS, ONLY. BACKFILLING WITHIN ANY EROSION PRONE CHANNEL SEGMENT OF THE DISTURBED AREA, SHALL RECEIVE A 6" (MIN.) LAYER OF RIP-RAP.
DREDGE & FILL #2
DREDGE & FILL #4
B-112
B-113
B-114
M.H.#147
M.H.#148
M.H.#149
M.H.#150
R.R. STA 2224
LIMIT OF CLEARING & GRUBBING (TYP.)
NOTE:
INV. OF M.H.#143 WILL DROP FROM 7.06 TO 6.86 AND ALL SLOPES WILL REMAIN THE SAME WITH SLIGHT CHANGES TO INVERT GRADES UP TO M.H.#150

PLAN 1"=40'

0 40 80 120 FT


M.H.#147
M.H.#148
M.H.#149
M.H.#150
APPROXIMATE EXISTING GROUND SURFACE
178.0' RT. TO WYE
INV. 7.56'
334' - 18" S.S. / SL = 0.0015 ft/ft P.V.C. PIPE - SDR 35
INV. 7.34
JACKED CROSSING 110'-18" S.S. / SL = 0.0015 ft/ft P.V.C. PIPE - SDR 26 WITH 100'-36" STEEL SLEEVE (0.432" MIN. THICKNESS)
INV. 8.07
326' - 18" S.S. / SL = 0.0014 ft/ft P.V.C. PIPE - SDR 35
INV. 8.54
RECORD DRAWING

PROFILE 1" = 40' (H)
1" = 4' (V)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
4	RECORD DRAWING	K.R.	01/96	BRJ		BRJ	01/96
3	REMOVE EASEMENT THROUGH TOWN PROP.	JDB	3/93	RBJ	RBJ		
2	ADDED TEMP. EASEMENT NOTE	BAJ	11/92	RBJ		RBJ	11/92
1	REVISED MANHOLE LOCATIONS PER A.C.E.	SNB	8/90	RBJ	RBJ	JAH	8/90
0	ISSUED FOR APPROVAL	RMG	1/89	JAH	JOE	BRJ	1/89

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

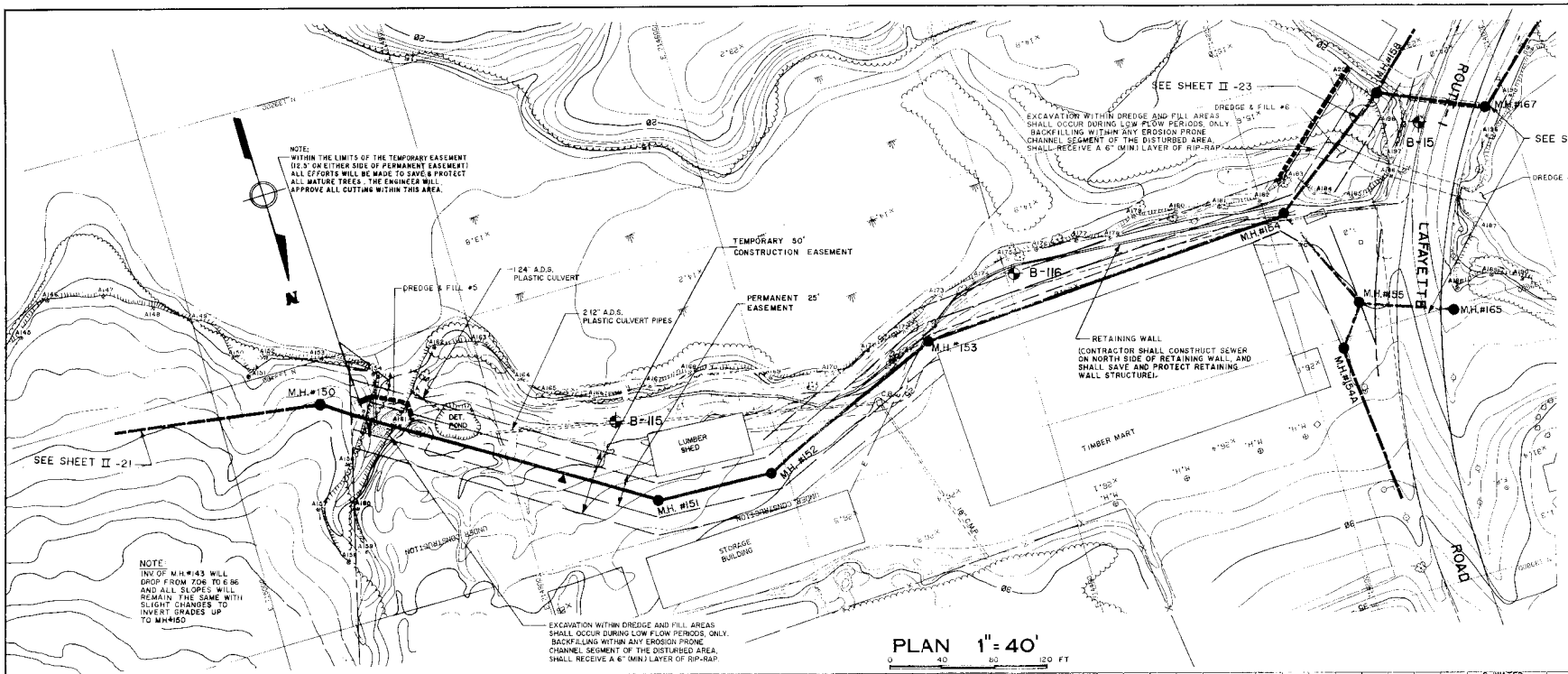
SANITARY SEWER CONSTRUCTION

CAINS BROOK CROSS COUNTRY

(MANHOLE NO. 147) - (MANHOLE NO. 150)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 21 OF 40


NOTE:
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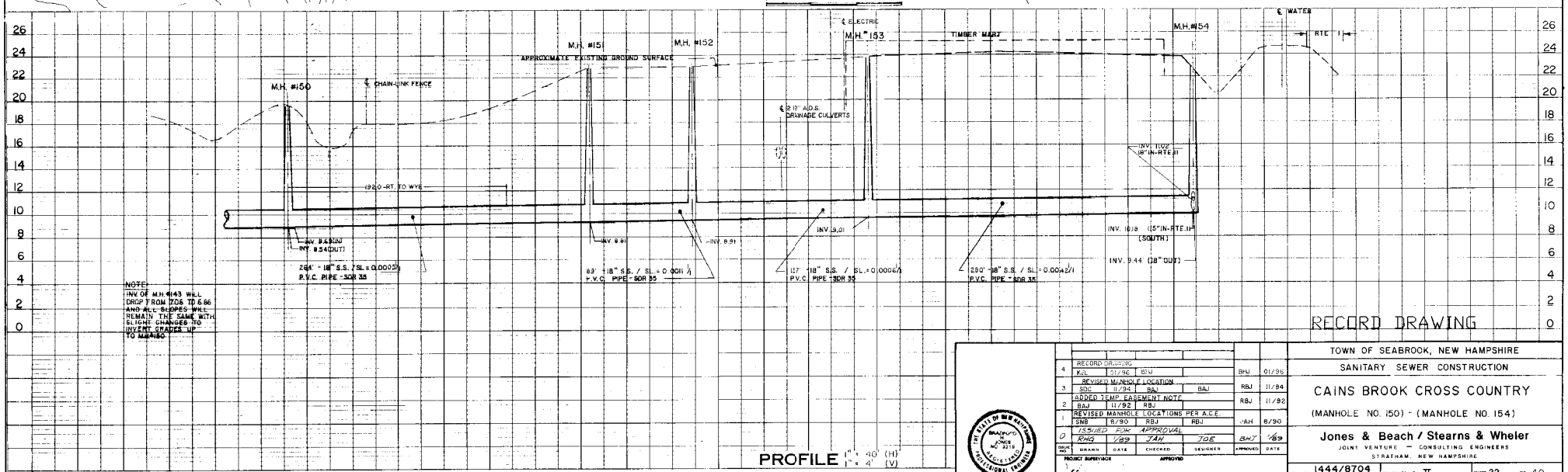
SEE SHEET II -23
EXCAVATION WITHIN DREDGE AND FILL AREAS SHALL OCCUR DURING LOW FLOW PERIODS ONLY. BACKFILLING WITHIN ANY EROSION PRONE CHANNEL SEGMENT OF THE DISTURBED AREA, SHALL RECEIVE A 6" (MIN.) LAYER OF RIP-RAP.
DREDGE & FILL #6
M.H.#158
M.H.#167
ROUTE 1
B-15
SEE SHEET II -23
DREDGE & FILL #7
NOTE;
WITHIN THE LIMITS OF THE TEMPORARY EASEMENT (IE 5' ON EITHER SIDE OF PERMANENT EASEMENT) ALL EFFORTS WILL BE MADE TO SAVE & PROTECT ALL MATURE TREES. THE ENGINEER WILL APPROVE ALL CUTTING WITHIN THIS AREA.
TEMPORARY 50' CONSTRUCTION EASEMENT
24" A.D.S. PLASTIC CULVERT
DREDGE & FILL #5
12" A.D.S. PLASTIC CULVERT PIPES
PERMANENT 25' EASEMENT
M.H.#154
B-116
LAFAYETTE ROAD
M.H.#155
M.H.#165
M.H.#153
RETAINING WALL
(CONTRACTOR SHALL CONSTHUCT SEWER ON NORTH SIDE OF RETAINING WALL, AND SHALL SAVE AND PROTECT RETAINING WALL STRUCTURE).
M.H.#150
B-115
DET. POND
LUMBER SHED
M.H.#152
M.H.#151
TIMBER MART
SEE SHEET II -21
NOTTINGHAM ROAD
STORAGE BUILDING
NOTE:
INV OF M.H.#143 WILL DROP FROM 7.06 TO 6.86 AND ALL SLOPES WILL REMAIN THE SAME WITH SLIGHT CHANGES TO INVERT GRADES UP TO MH#150
EXCAVATION WITHIN DREDGE AND FILL AREAS SHALL OCCUR DURING LOW FLOW PERIODS ONLY. BACKFILLING WITHIN ANY EROSION PRONE CHANNEL SEGMENT OF THE DISTURBED AREA, SHALL RECEIVE A 6" (MIN.) LAYER OF RIP-RAP.
PLAN 1"= 40'
0 40 80 120 FT


℄ ELECTRIC
M.H.#153
TIMBER MART
M.H.#154
℄ WATER
RTE 1
M.H. #151
M.H. #152
APPROXIMATE EXISTING GROUND SURFACE
M.H. #150
℄ CHAIN-LINK FENCE
℄ 2 18" A.D.S. DRAINAGE CULVERTS
INV. 11.02 (8"IN-RTE.1)
(92.0-RT. TO WYE
INV. 8.53IN INV. 8.54OUT
INV. 8.91
INV. 8.91
INV. 9.01
INV. 10.18 (15"IN-RTE.1) (SOUTH)
INV. 9.44 (18" OUT)
264' - 18" S.S. / SL = 0.0003 ft P.V.C. PIPE - SDR 35
83' - 18" S.S. / SL = 0.0011 ft P.V.C. PIPE - SDR 35
157' - 18" S.S. / SL = 0.0006 ft P.V.C. PIPE - SDR 35
280' - 18" S.S. / SL = 0.0042 ft P.V.C. PIPE - SDR 35
NOTE:
INV OF M.H.#143 WILL DROP FROM 7.06 TO 6.86 AND ALL SLOPES WILL REMAIN THE SAME WITH SLIGHT CHANGES TO INVERT GRADES UP TO MH#150
PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

4	RECORD DRAWING					RBJ	01/96
	KJL	01/96	BJJ				
3	REVISED MANHOLE LOCATION					RBJ	11/94
	SDC	11/94	RBJ		BAJ		
2	ADDED TEMP. EASEMENT NOTE					RBJ	11/92
	BAJ	11/92	RBJ				
1	REVISED MANHOLE LOCATIONS PER A.C.E.					JAH	8/90
	SNB	8/90	RBJ		RBJ		
0	ISSUED FOR APPROVAL					BHJ	1/89
ISSUE NO.	DRAWN	DATE	CHECKED		DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CAINS BROOK CROSS COUNTRY

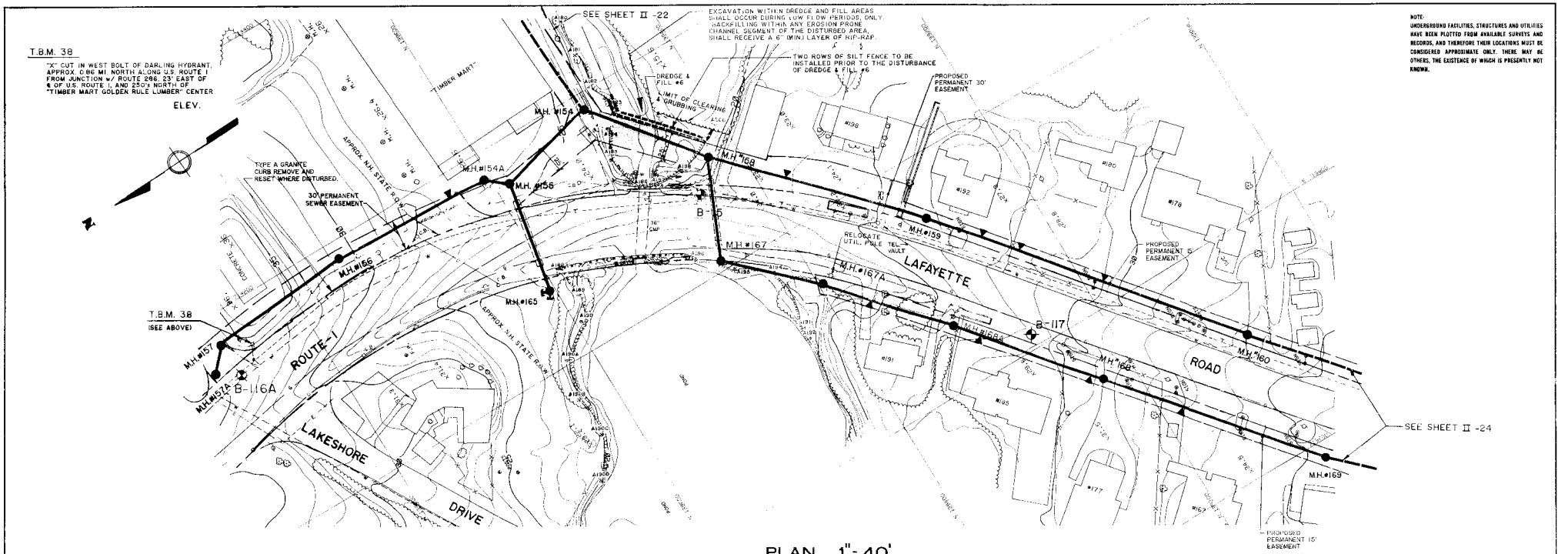
(MANHOLE NO. 150) - (MANHOLE NO. 154)

Jones & Beach / Stearns & Wheler

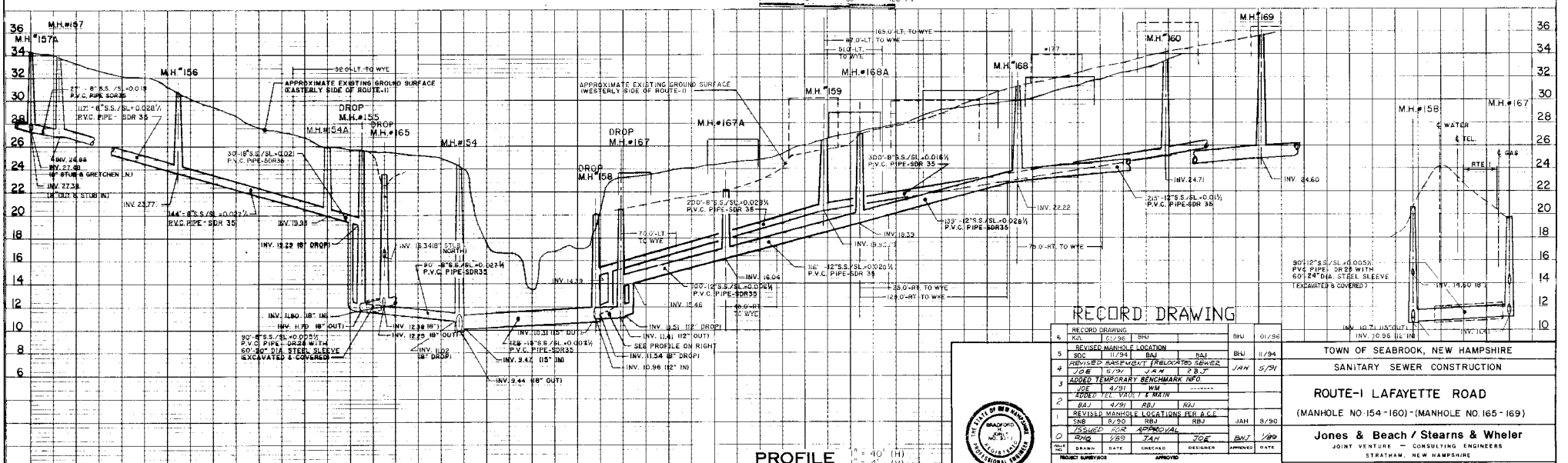
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 22 OF 40


T.B.M. 38
"X" CUT IN WEST BOLT OF DARLING HYDRANT, APPROX. 0.86 MI. NORTH ALONG U.S. ROUTE 1 FROM JUNCTION w/ ROUTE 286, 23' EAST OF ℄ OF U.S. ROUTE 1, AND 250± NORTH OF "TIMBER MART GOLDEN RULE LUMBER" CENTER
ELEV.
SEE SHEET II -22
EXCAVATION WITHIN DREDGE AND FILL AREAS SHALL OCCUR DURING LOW FLOW PERIODS, ONLY. BACKFILLING WITHIN ANY EROSION PRONE CHANNEL SEGMENT OF THE DISTURBED AREA, SHALL RECEIVE A 6" (MIN.) LAYER OF RIP-RAP.
TWO ROWS OF SILT FENCE TO BE INSTALLED PRIOR TO THE DISTURBANCE OF DREDGE & FILL #6
DREDGE & FILL #6
LIMIT OF CLEARING & GRUBBING
PROPOSED PERMANENT 30' EASEMENT
TYPE A GRANITE CURB REMOVE AND RESET WHERE DISTURBED.
30' PERMANENT SEWER EASEMENT
APPROX. N.H. STATE R.O.W.
M.H. #154
M.H. #154A
M.H. #156
M.H. #168
M.H. #167
M.H. #167A
M.H. #165
M.H. #159
M.H. #160
M.H. #168A
M.H. #157
M.H. #157A
B-116
B-117
RELOCATE UTIL. POLE TEL. VAULT
PROPOSED PERMANENT 15' EASEMENT
T.B.M. 38 (SEE ABOVE)
ROUTE-1
LAFAYETTE ROAD
LAKESHORE DRIVE
SEE SHEET II -24
M.H. #169
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

PLAN 1" = 40'



RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
6	RECORD DRAWING	KA	01/96	BHJ		BHJ	01/96
5	REVISED MANHOLE LOCATION	SDC	11/94	BAJ	BAJ	BHJ	11/94
4	REVISED EASEMENT / RELOCATED SEWER	JDE	5/91	JAN	BJT	JAH	5/91
3	ADDED TEMPORARY BENCHMARK INFO.	JDE	4/91	WM	-------		
2	ADDED TEL. VAULT & MAIN	BAJ	4/91	RBJ	RBJ		
1	REVISED MANHOLE LOCATIONS PER A.C.E.	SNB	8/90	RBJ	RBJ	JAH	8/90
0	ISSUED FOR APPROVAL	RMG	1/89	JAN	JDE	BHJ	1/89

PROJECT SURVEYOR: ------- APPROVED: -------

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE-1 LAFAYETTE ROAD

(MANHOLE NO. 154-160) - (MANHOLE NO. 165-169)

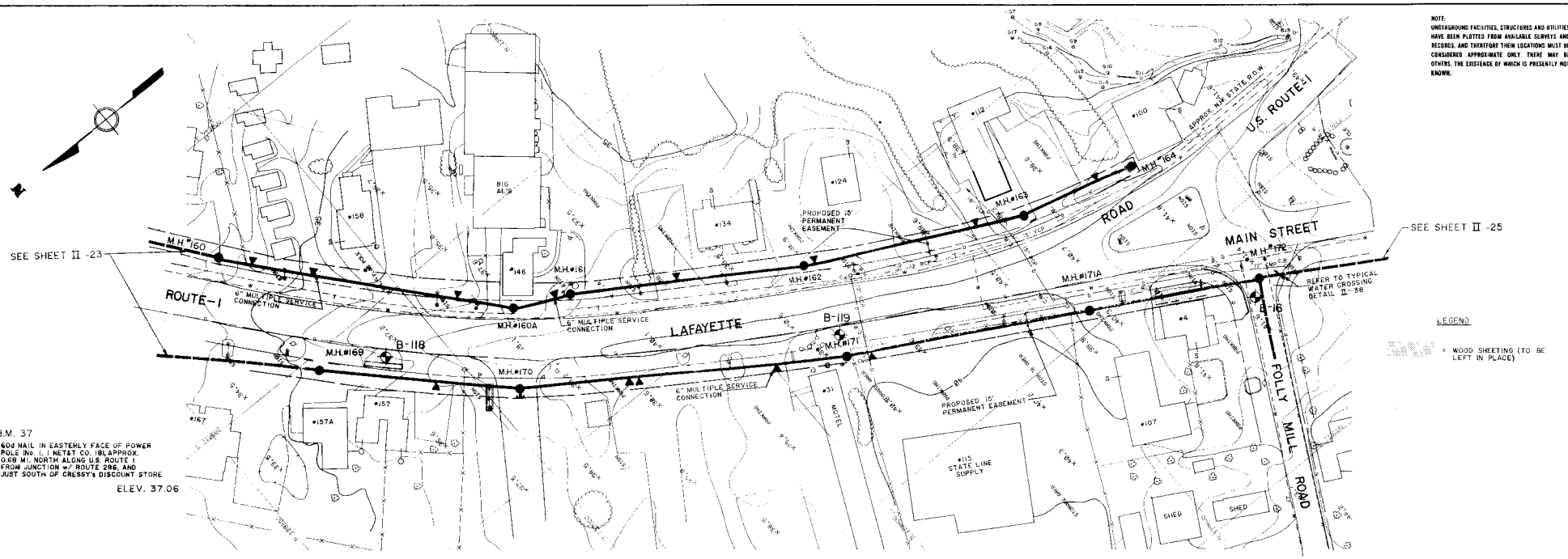
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 23 OF 40

THE STATE OF NEW HAMPSHIRE BRADFORD BAILEY JR. 5127 REGISTERED PROFESSIONAL ENGINEER

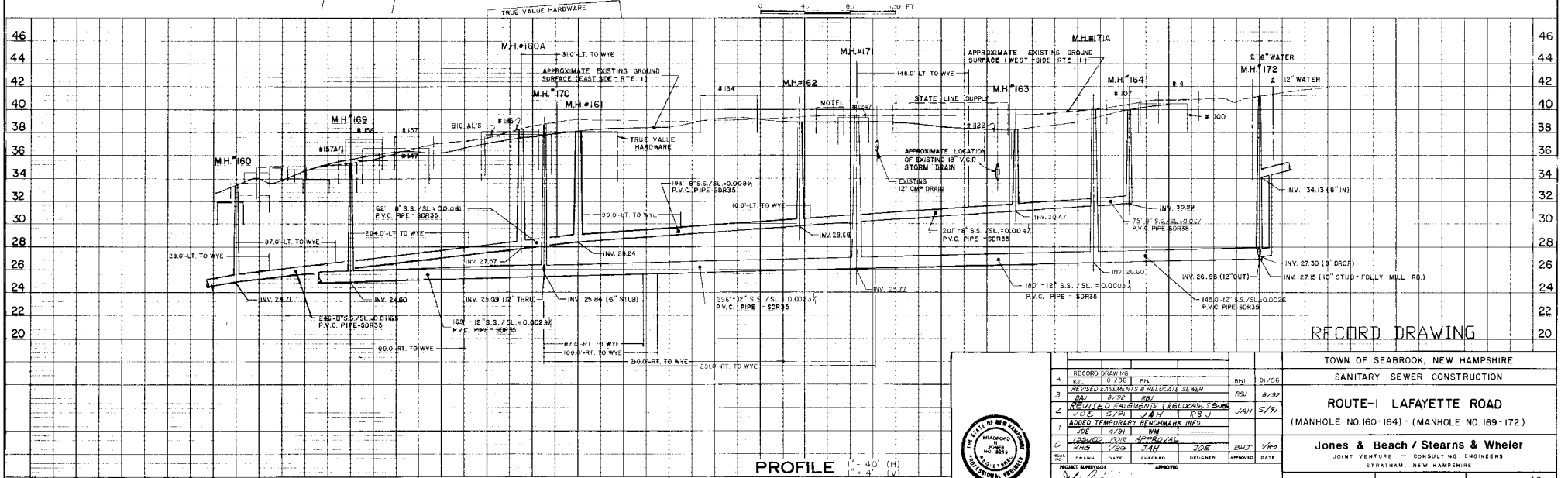
HH SULLIVAN, INC 509597

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIN LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



T.B.M. 37
60d NAIL IN EASTERLY FACE OF POWER POLE (No. 1, I NET&T CO. (B), APPROX. 0.68 MI. NORTH ALONG U.S. ROUTE 1 FROM JUNCTION w/ ROUTE 286, AND JUST SOUTH OF CRESSY'S DISCOUNT STORE
ELEV. 37.06

PLAN 1" = 40'
0 40 80 120 FT


PROFILE 1" = 40' (H) 1" = 4' (V)
TRUE VALUE HARDWARE
APPROXIMATE EXISTING GROUND SURFACE (EAST SIDE - RTE. 1)
APPROXIMATE EXISTING GROUND SURFACE (WEST SIDE RTE 1)
APPROXIMATE LOCATION OF EXISTING 18" V.C.P. STORM DRAIN
EXISTING 12" CMP DRAIN
6" WATER
12" WATER
31.0'-LT. TO WYE
148.0'-LT. TO WYE
62'-8" S.S. /SL.=0.0084 P.V.C. PIPE - SDR35
193'-8" S.S./SL.=0.0084 P.V.C. PIPE-SDR35
90.0'-LT. TO WYE
10.0'-LT. TO WYE
87.0'-LT. TO WYE
204.0'-LT. TO WYE
28.0'-LT. TO WYE
207'-8" S.S. /SL.=0.0047 P.V.C. PIPE -SDR35
75'-8" S.S./SL.=0.027 P.V.C. PIPE-SDR35
180'-12" S.S. /SL.=0.0023 P.V.C. PIPE - SDR35
236'-12" S.S. /SL.=0.0023 P.V.C. PIPE - SDR35
145.0'-12" S.S./SL.=0.0026 P.V.C. PIPE-SDR35
168'-12" S.S./SL.=0.0029 P.V.C. PIPE - SDR35
245'-8" S.S./SL.=0.0165 P.V.C. PIPE-SDR35
87.0'-RT. TO WYE
100.0'-RT. TO WYE
210.0'-RT. TO WYE
291.0'-RT. TO WYE
INV. 34.13 (8" IN)
INV. 30.99
INV. 30.47
INV. 29.68
INV. 29.24
INV. 27.97
INV. 27.30 (8" DROP)
INV. 27.15 (10" STUB - FOLLY MILL RD.)
INV. 26.98 (12" OUT)
INV. 26.60
INV. 25.77
INV. 25.09 (12" THRU)
INV. 25.84 (6" STUB)
INV. 24.71
INV. 24.60

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
3	REVISED EASEMENTS & RELOCATE SEWER	RAJ	8/92	RBJ		RBJ	8/92
2	REVISED EASEMENTS & RELOCATE SEWER	JOE	5/91	JAH	RBJ	JAH	5/91
1	ADDED TEMPORARY BENCHMARK INFO.	JOE	4/91	WM			
0	ISSUED FOR APPROVAL	RMG	1/89	JAH	JOE	BHJ	1/89

PROJECT SUPERVISOR: BHJ
APPROVED:

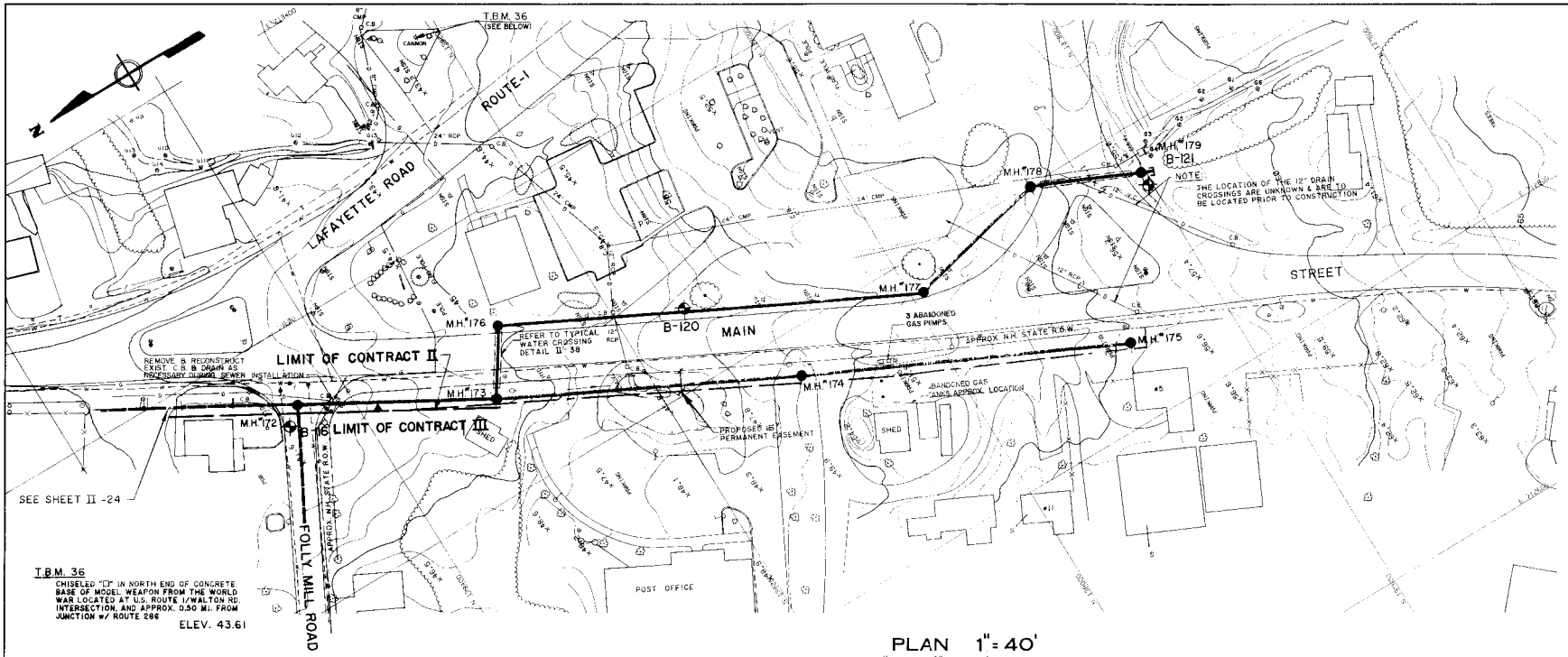
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

ROUTE-1 LAFAYETTE ROAD

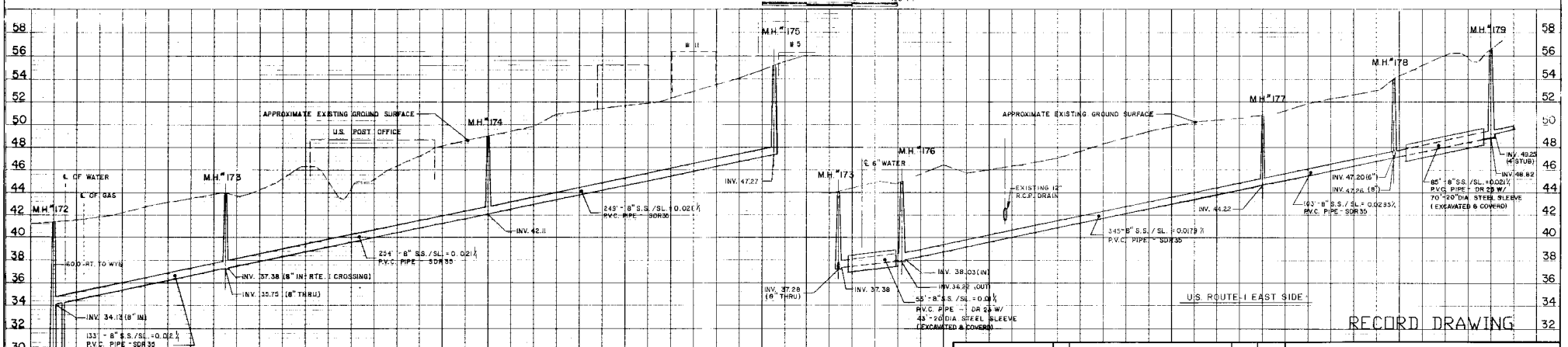
(MANHOLE NO. 160-164) - (MANHOLE NO. 169-172)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 24 OF 40



PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	KH	01/96	BHJ		BHJ	01/96
	REVISED LOCATION OF MH176-178					
3	BAJ	4/91	JAH			4/91
	REVISED EASEMENTS					
2	JOE	5/91	JAH	RBJ	JAH	5/91
	ADDED TEMPORARY BENCHMARK INFO.					
1	JOE	4/91	WM			
	ISSUED FOR APPROVAL					
0	RMD	1/89	JAH	JOE	BHJ	1/89

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

ROUTE I LAFAYETTE ROAD
(MANHOLE NO. 172) - (MANHOLE NO. 179)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 25 OF 40

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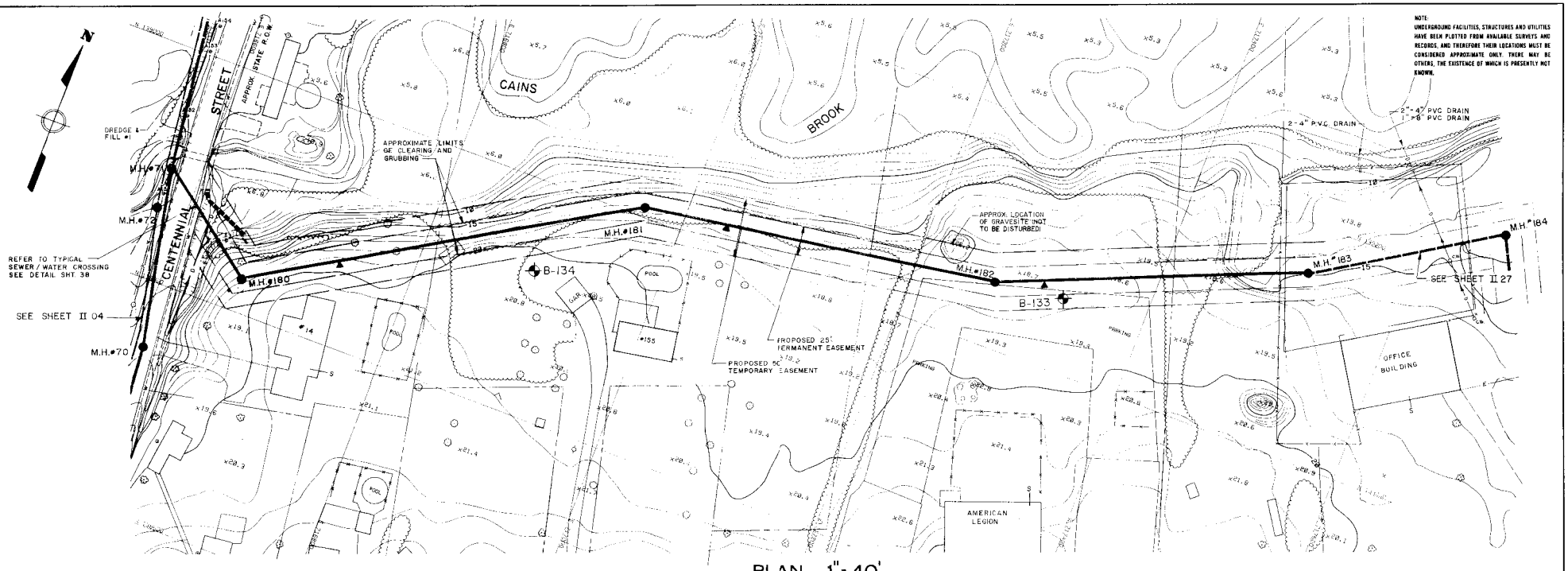

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
N
CENTENNIAL STREET
APPROX. STATE R.O.W.
CAINS BROOK
DREDGE & FILL #1
APPROXIMATE LIMITS OF CLEARING AND GRUBBING
2-4" P.V.C. DRAIN
1-6" P.V.C. DRAIN
M.H.#179
M.H.#180
M.H.#181
M.H.#182
M.H.#183
M.H.#184
M.H.#70
B-134
B-133
APPROX. LOCATION OF GRAVESITE (NOT TO BE DISTURBED)
PROPOSED 25' PERMANENT EASEMENT
PROPOSED 50' TEMPORARY EASEMENT
REFER TO TYPICAL SEWER / WATER CROSSING SEE DETAIL SHT 38
SEE SHEET II 04
SEE SHEET II 27
POOL
OFFICE BUILDING
AMERICAN LEGION
PLAN 1" = 40'
0 40 80 120 FT
MOBILE HOME
M.H.#71
TEL.
WATER
DRAINLINE
104.0'-RT. TO WYE
60.0'-RT. TO WYE
33.0'-RT. TO WYE
INV. 2.13
INV. 3.38
INV. 4.32
INV. 5.17
INV. 1.46 (10"IN)
INV. 1.29 (12"IN)
INV. 1.04 (15"OUT)
350' 12" S.S./S.L. = 0.004 ft/ft P.V.C. PIPE - SDR 35
314' 12" S.S./S.L. = 0.0030 ft/ft P.V.C. PIPE - SDR 35
229' 12" S.S./S.L. = 0.0037 ft/ft P.V.C. PIPE - SDR 35
108' 12" S.S./S.L. = 0.004 ft/ft PVC PIPE SDR-35
APPROXIMATE EXISTING GROUND SURFACE
PROFILE 1" = 40' (H) 1" = 4' (V)
RECORD DRAWING

3	RECORD DRAWING					BHJ	01/96
2	LOWER SEWER GRADE 1.5 FT.					BHJ	5/94
	EM	5/94	DT		DT		
1	GEN. REVISIONS					BHJ	5/93
	WJH	5/93	RBJ		RBJ		
0	ISSUED FOR APPROVAL					BHJ	1/93
	RMS	1/93	JAH		JOE		
SHEET NO.	DRAWN	DATE	CHECKED		DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

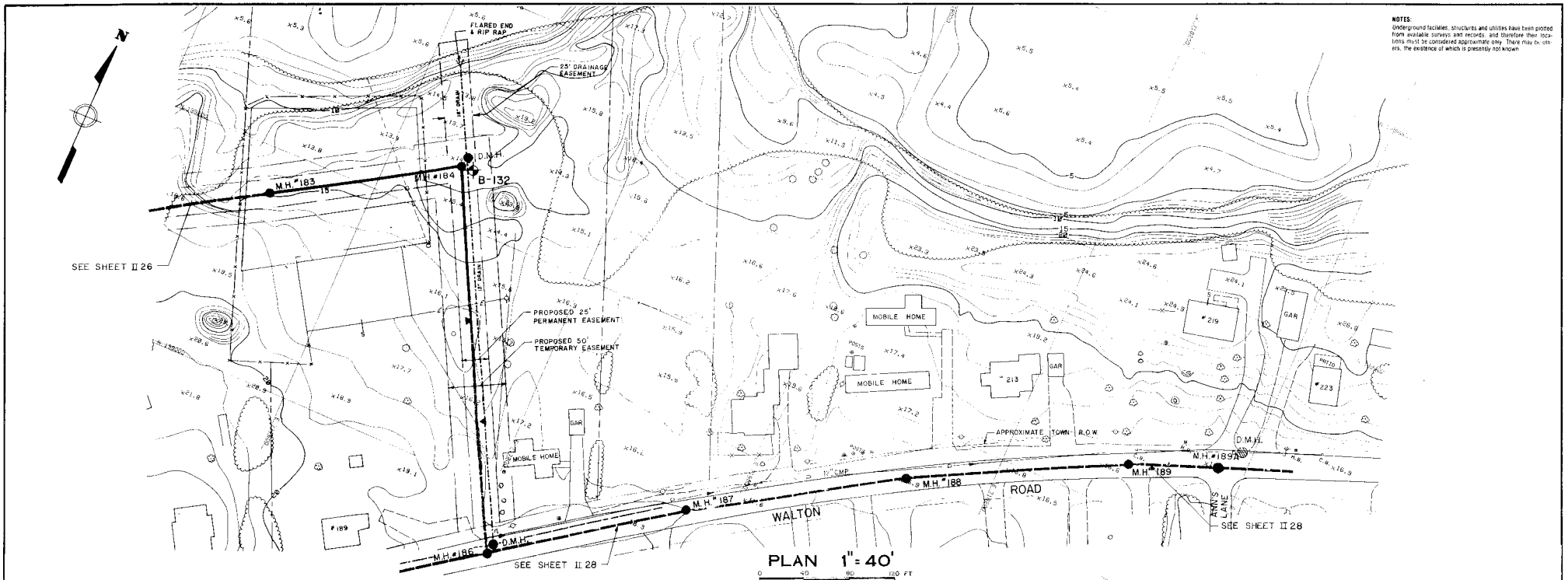
TOWN OF SEABROOK, NEW HAMPSHIRE

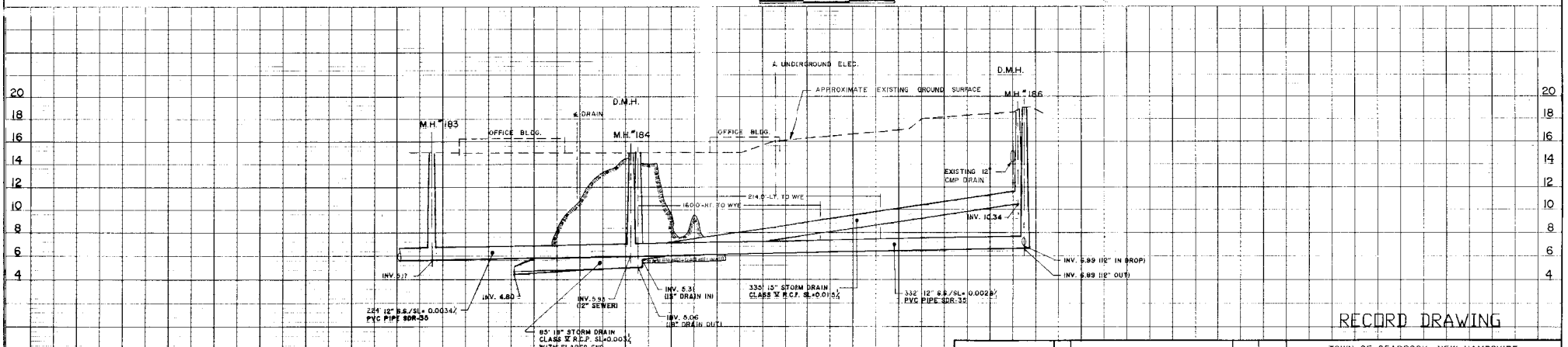
SANITARY SEWER CONSTRUCTION

CROSS COUNTRY
WALTON ROAD TO CENTENNIAL STREET
(MANHOLE NO. 180) - (MANHOLE NO. 183)

Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 26 OF 40





RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
3	ADDED DRAINAGE	EM	5/94		BHJ	BHJ	5/94
2	LOWER SEWER GRADE 1.5 FT.	EM	5/94	DT	DT	BHJ	5/94
1	ADDED DRAINAGE	EM	3/94	JEC	BHJ	BHJ	3/94
0	ISSUED FOR APPROVAL	RHS	1/94	JAH	JOE	BHJ	1/94

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

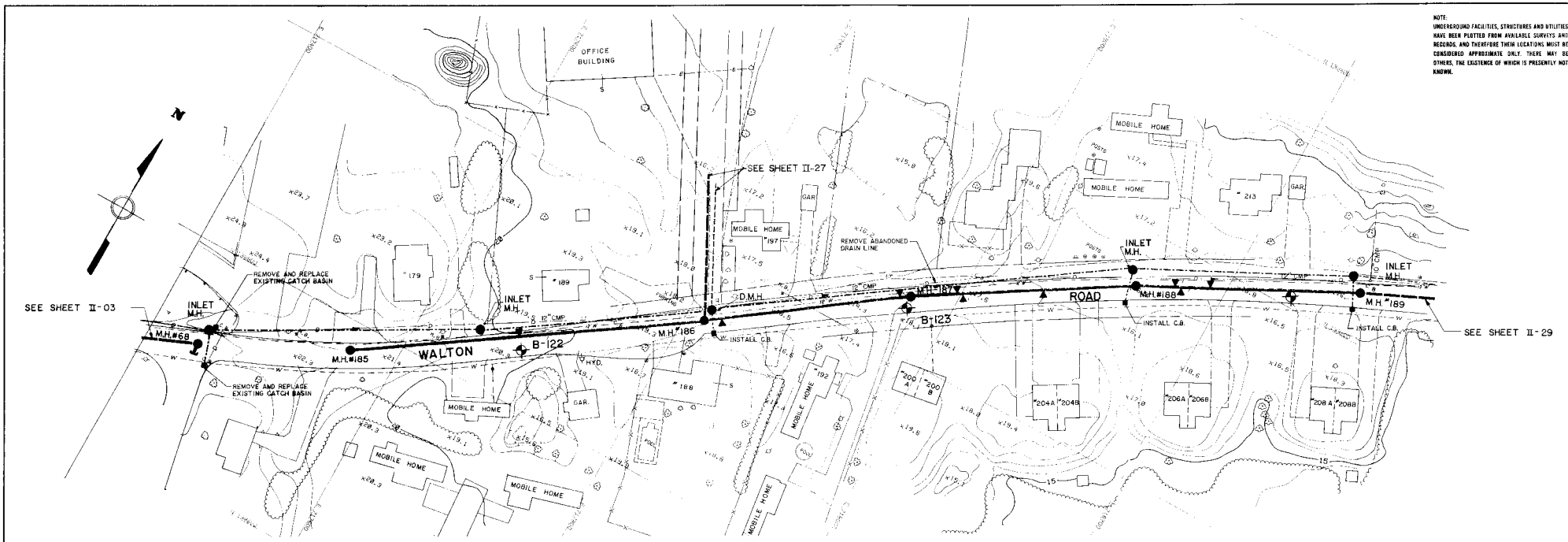
SANITARY SEWER CONSTRUCTION

CROSS COUNTRY
WALTON ROAD TO CENTENNIAL STREET
(MANHOLE NO. 183) - (MANHOLE NO. 186)

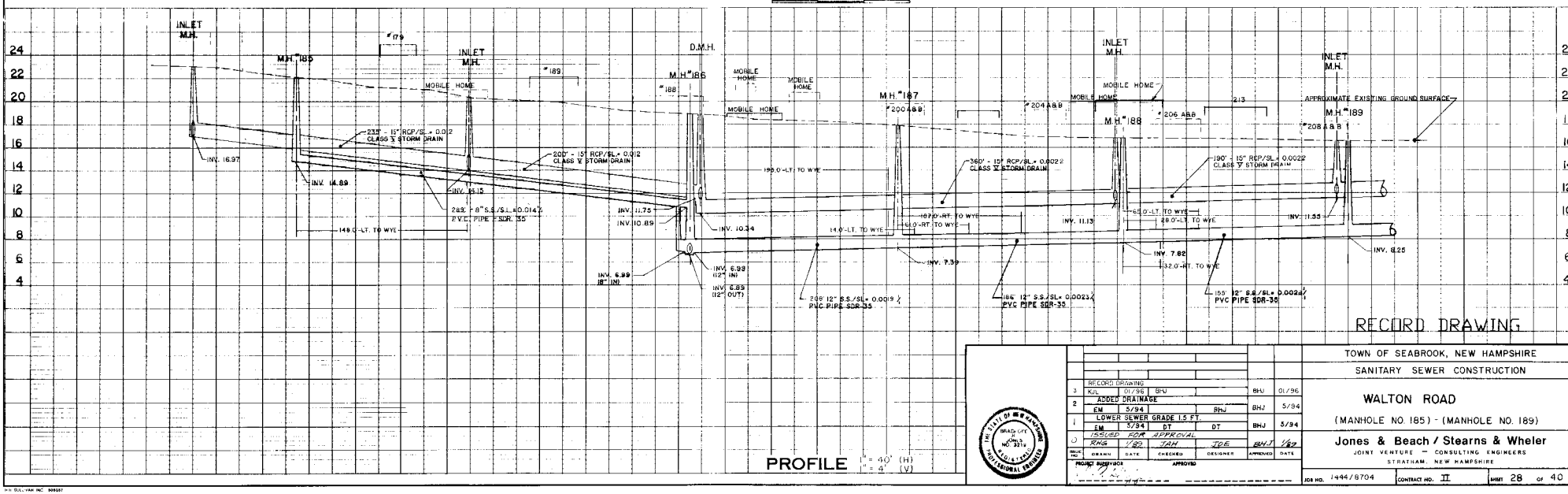
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 27 OF 40

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'



PROFILE H = 40' (H) V = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
2	ADDED DRAINAGE	EM	5/94		BHJ	BHJ	5/94
1	LOWER SEWER GRADE 1.5 FT.	EM	5/94	DT	DT	BHJ	5/94
0	ISSUED FOR APPROVAL	RNS	1/93	JAH	JDE	BHJ	1/93

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WALTON ROAD

(MANHOLE NO. 185) - (MANHOLE NO. 189)

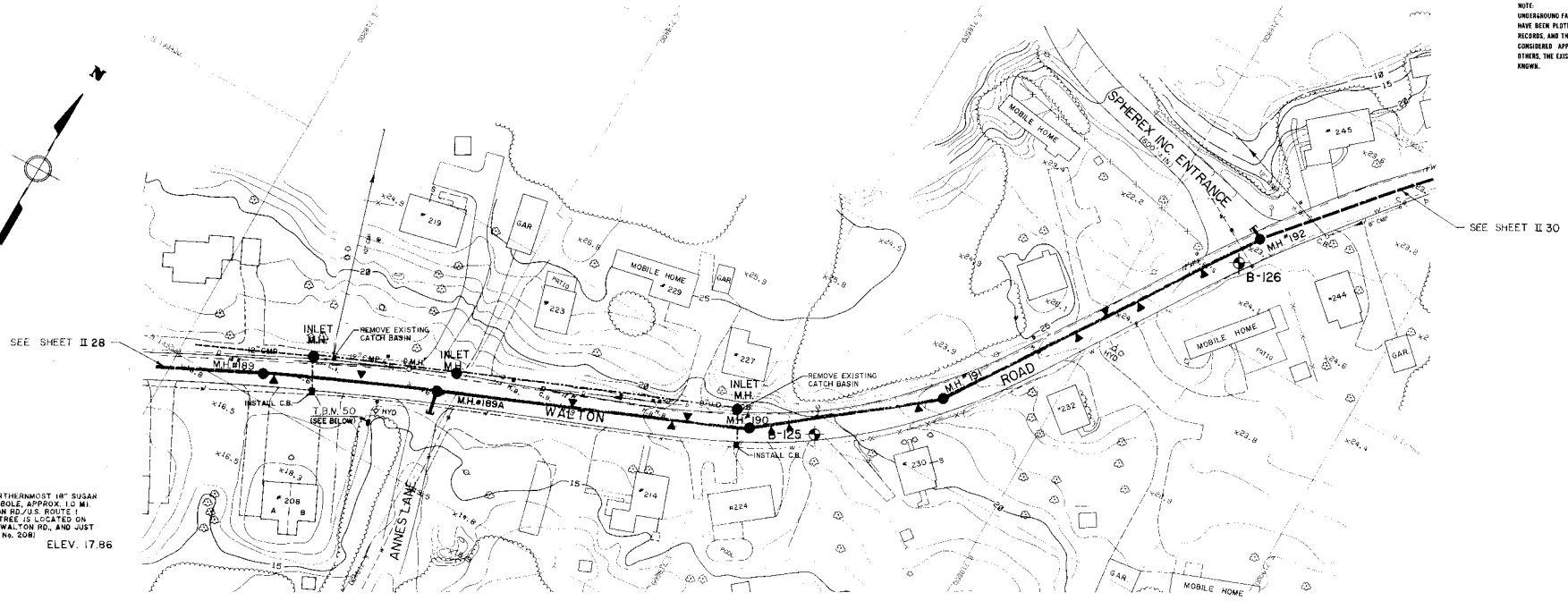
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 28 OF 40

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

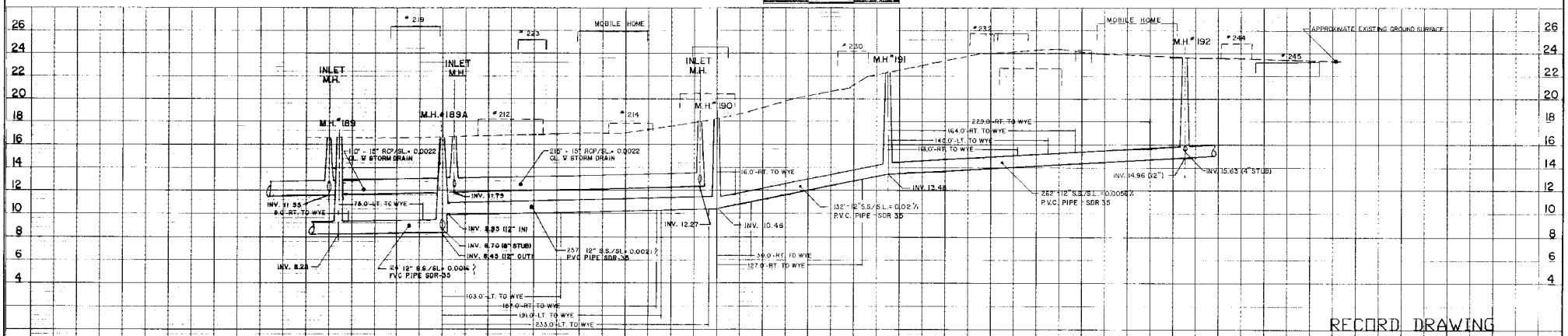


T.B.M. 50

60d NAIL IN NORTHERNMOST 18" SUGAR MAPLE OF TWO-BOLE, APPROX. 1.0 MI. EAST OF WALTON RD./U.S. ROUTE 1 INTERSECTION (TREE IS LOCATED ON SOUTH SIDE OF WALTON RD., AND JUST EAST OF HOUSE No. 208)

ELEV. 17.86

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD DRAWINGS	KJL	01/96	BHJ		BHJ	01/96
3	ADDED DRAINAGE	EM	5/94		BHJ	BHJ	5/94
2	LOWER SEWER GRADE 1.5 FT.	EM	5/94	DT	DT	BHJ	5/94
1	ADDED TEMPORARY BENCHMARK INFO.	JOE	4/91	WH			
0	ISSUED FOR APPROVAL	RHG	1/89	JAH	JOE	BHJ	1/89

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WALTON ROAD

(MANHOLE NO. 189) - (MANHOLE NO. 192)

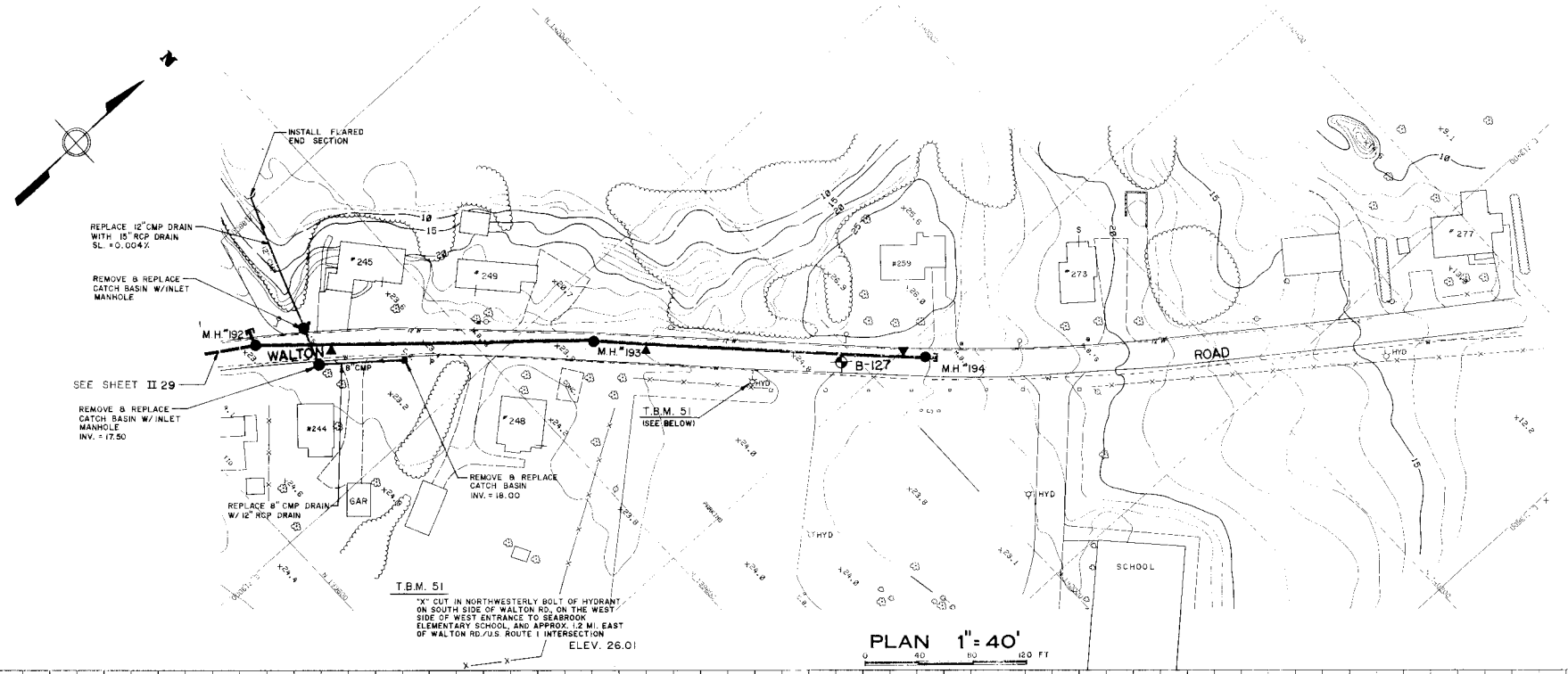
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

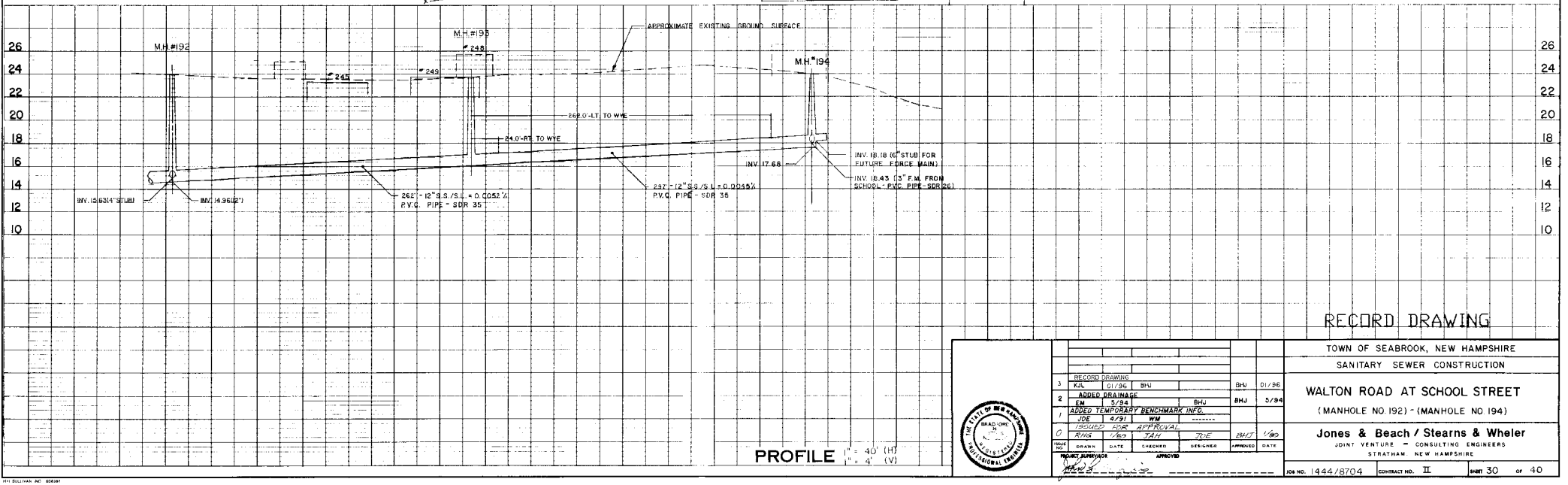
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 29 OF 40

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.


INSTALL FLARED END SECTION
REPLACE 12"CMP DRAIN WITH 15" RCP DRAIN SL. =0.004%
REMOVE & REPLACE CATCH BASIN W/INLET MANHOLE
M.H. "192"
WALTON
M.H. "193"
B-127
M.H. "194"
ROAD
SEE SHEET II 29
REMOVE & REPLACE CATCH BASIN W/ INLET MANHOLE INV. = 17.50
18"CMP
T.B.M. 51 (SEE BELOW)
REMOVE & REPLACE CATCH BASIN INV. = 18.00
REPLACE 8" CMP DRAIN W/ 12" RCP DRAIN
#245
#249
#244
#248
#259
#273
#277
SCHOOL
GAR
HYD
T.B.M. 51
"X" CUT IN NORTHWESTERLY BOLT OF HYDRANT ON SOUTH SIDE OF WALTON RD. ON THE WEST SIDE OF WEST ENTRANCE TO SEABROOK ELEMENTARY SCHOOL, AND APPROX. 1.2 MI. EAST OF WALTON RD./U.S. ROUTE 1 INTERSECTION
ELEV. 26.01

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	KJL	01/96	BHJ		BHJ	01/96
2	EM	5/94		BHJ	BHJ	5/94
1	JDE	4/91	WM	------		
0	RMS	1/89	JAH	JDE	BHJ	1/89

3 RECORD DRAWING
2 ADDED DRAINAGE
1 ADDED TEMPORARY BENCHMARK INFO.
0 ISSUED FOR APPROVAL

PROJECT SURVEYOR
APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

WALTON ROAD AT SCHOOL STREET

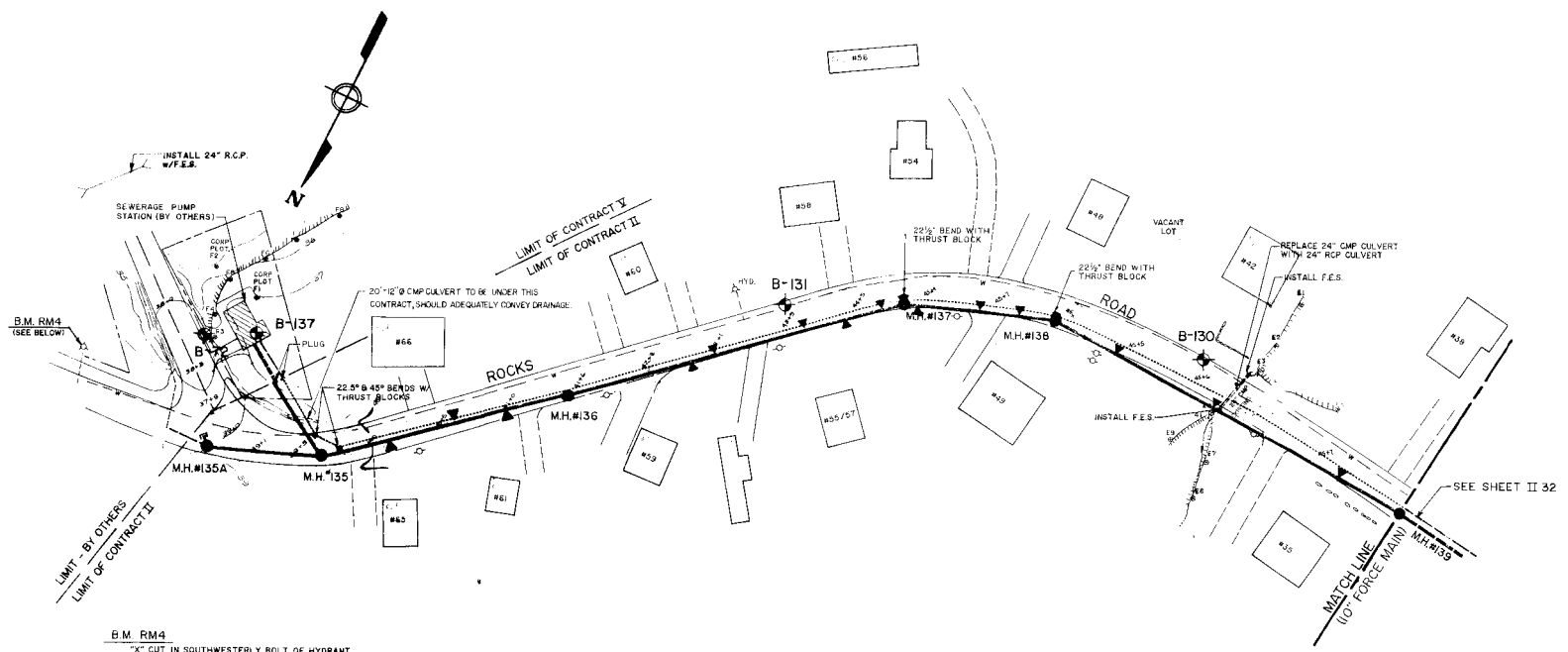
(MANHOLE NO. 192) - (MANHOLE NO. 194)

Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 30 OF 40

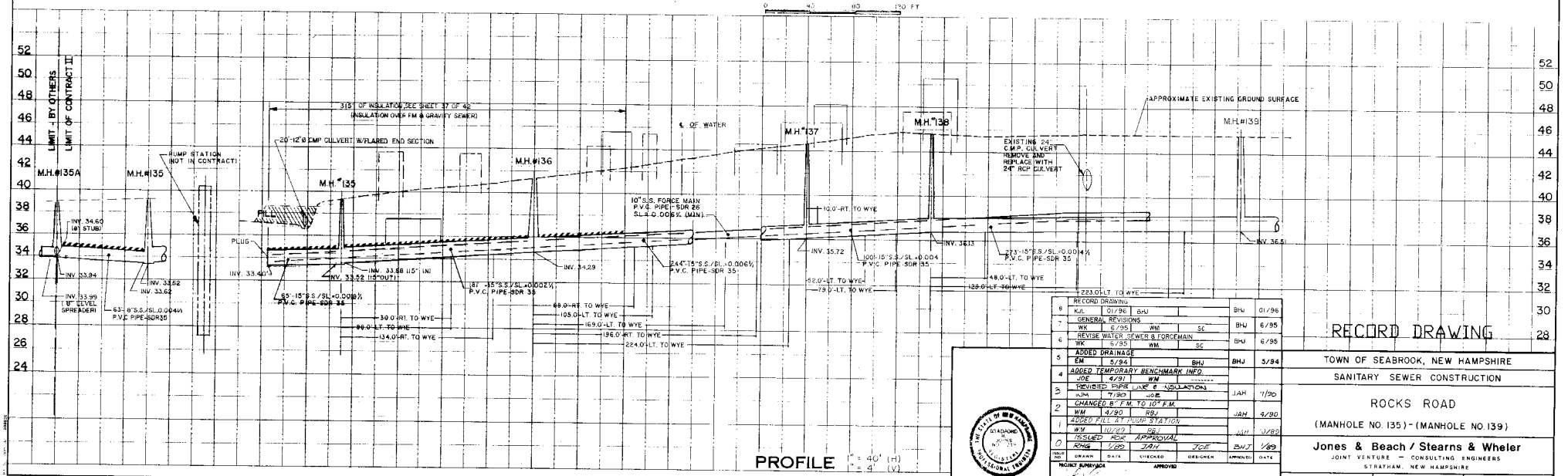
H.H. SULLIVAN, INC. 606387

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



B.M. RM4
"X" CUT IN SOUTHWESTERLY BOLT OF HYDRANT ON SOUTH SIDE OF ROCKS ROAD, 61 FT. EAST OF POLE No. 175/1152, AND APPROX. 1850 FT. ALONG ROCKS RD. FROM IT'S INTERSECTION w/U.S. ROUTE 1
ELEV. 38.71

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

NO.	DESCRIPTION					
8	RECORD DRAWING				BHJ	01/96
	KdL	01/96	BHJ			
7	GENERAL REVISIONS				BHJ	6/95
	WK	6/95	WM	SC		
6	REVISE WATER, SEWER & FORCEMAIN				BHJ	6/95
	WK	6/95	WM	SC		
5	ADDED DRAINAGE				BHJ	5/94
	EM	5/94		BHJ		
4	ADDED TEMPORARY BENCHMARK INFO.					
	JOE	4/91	WM			
3	REVISED PIPE LAKE & INSULATION				JAH	1/90
	WM	1/90	JOE			
2	CHANGED 8" F.M. TO 10" F.M.				JAH	4/90
	WM	4/90	RBJ			
1	ADDED P.S. #1 / PUMP STATION				JAH	3/89
	WM	10/89	RBJ			
0	ISSUED FOR APPROVAL				BHJ	1/89
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
	RMG	1/89	JAH	JOE		

PROJECT SURVEYOR — APPROVED

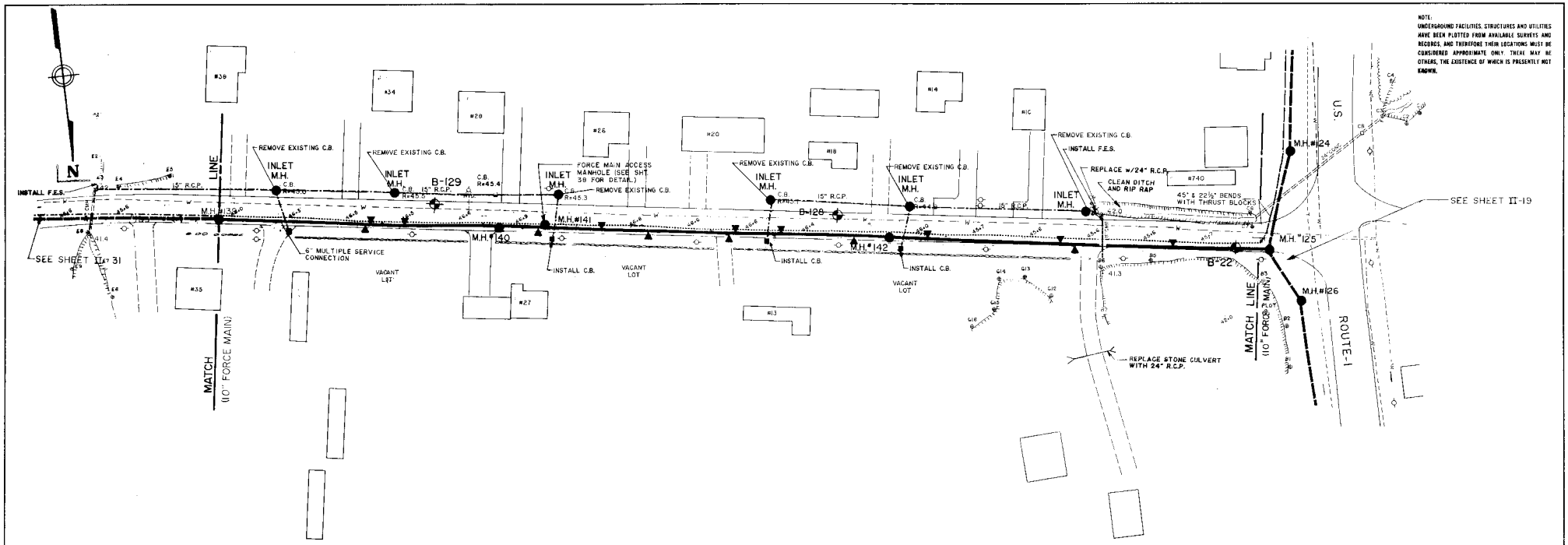
RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

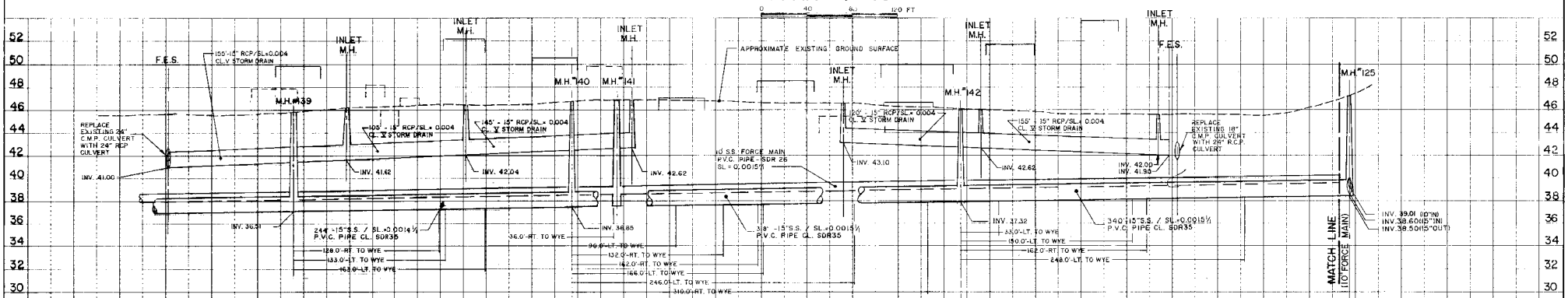
ROCKS ROAD
(MANHOLE NO. 135) - (MANHOLE NO. 139)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. II | SHEET 31 OF 40



PLAN 1" = 40'



PROFILE 1" = 4' (H) 1" = 4' (V)

RECORD DRAWING

NO.	ISSUE	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
	RECORD DRAWING					BHJ	01/96
4		KJL	01/96	BHJ			
3	REVISED WATER/DRAINAGE AND SEWER	SRF	6/95		BHJ	BHJ	6/95
2	ADDED DRAINAGE	EM	5/94		BHJ	BHJ	5/94
1	CHANGED 8" F.M. TO 10" F.M.	WM	4/90	RBJ		JAH	4/90
0	ISSUED FOR APPROVAL	RMG	1/85	JAH	JOE	BHJ	1/89

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROCKS ROAD

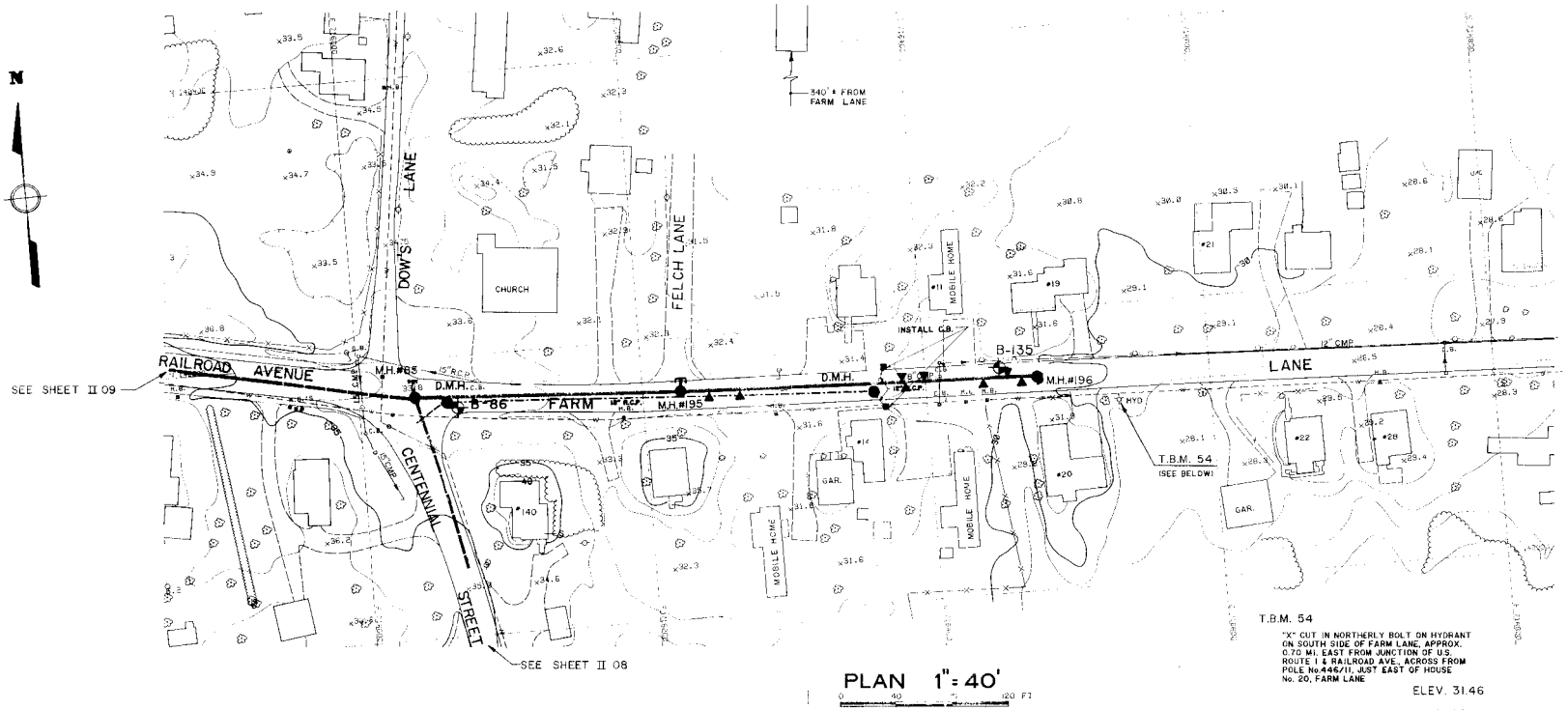
(MANHOLE NO. 139) - (MANHOLE NO. 142)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 32 OF 40



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

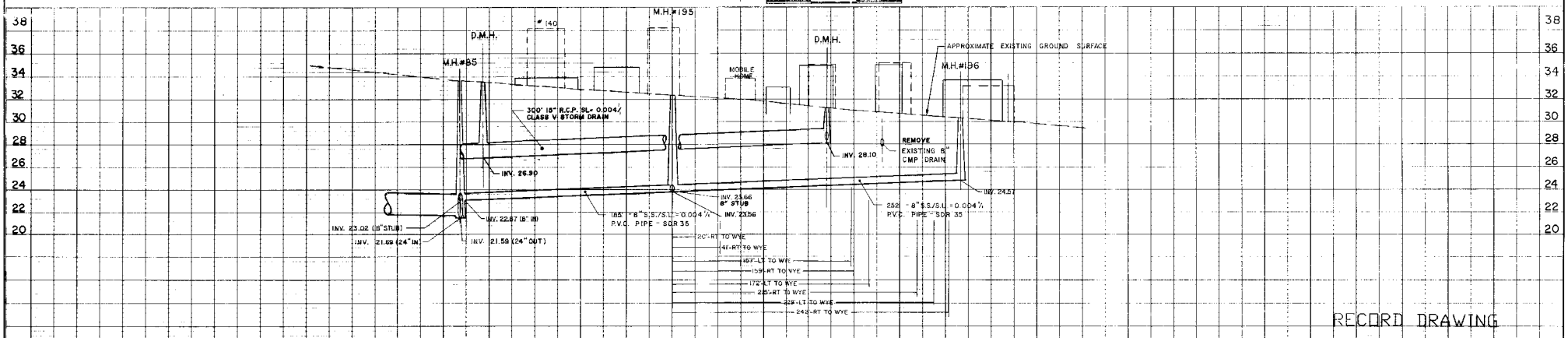
T.B.M. 54

"X" CUT IN NORTHERLY BOLT ON HYDRANT ON SOUTH SIDE OF FARM LANE, APPROX. 0.70 MI. EAST FROM JUNCTION OF U.S. ROUTE 1 & RAILROAD AVE., ACROSS FROM POLE No.446/11, JUST EAST OF HOUSE No. 20, FARM LANE

ELEV. 31.46

PLAN 1" = 40'

0 40 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD DRAWING JAP 1/96				BHJ	1/96
3	ADDED DRAINAGE EM 5/94			BHJ	BHJ	5/94
2	MOVE M.H.#195 ADDED 8" STUB EM 2/94		JEC	EM	BHJ	2/94
1	ADDED TEMPORARY BENCHMARK INFO. JOE 4/91		WM	------		
0	ISSUED FOR APPROVAL RHS 1/89		JAH	JOE	BHJ	1/89

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FARM LANE

(MANHOLE NO. 195) - (MANHOLE NO. 196)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. II SHEET 33 OF 40

H:\SULLIVAN INC 000387

SANITARY SEWER CONSTRUCTION

SEABROOK, NEW HAMPSHIRE

CONTRACT NO. 3

1993

JONES & BEACH/STEARNS & WHEELER

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

RECORD DRAWING

ABBREVIATIONS

BENCHMARK	BM
BITUMINOUS	BIT
CAST IRON PIPE	CIP
CATCH BASIN	CB
CONCRETE	CONC
CORR. METAL PIPE	CMP
DRAIN	D
ELEVATION	EL
FENCE	FC
FIRST FLOOR	FF
FORCE MAIN	FM
GAS MAIN	G
GUIDE POST	GP
HYDRANT	HYD.
INVERT	INV
IRON PIN	IP
LAMP POLE	LP
MANHOLE	MH
MONUMENT	MON
PERCENT GRADE	%
PERM. EASEMENT	PE
RIGHT OF WAY	ROW
SEWER	S
STONE	ST
SEWER MANHOLE	SMH
TEMP. EASEMENT	TE
WATER	W
WOOD	WD
WOVEN WIRE	WW
PROPERTY LINE	P
GRAVEL	GRAV

SELECTMEN

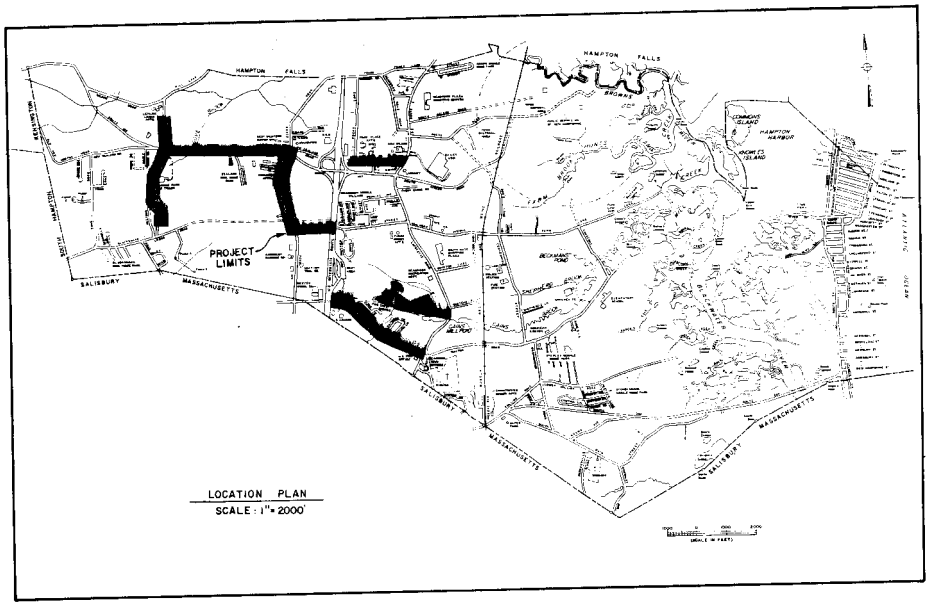
ASA H. KNOWLES JR., CHAIRMAN

ELIZABETH A. THIBODEAU

BURWELL PIKE

TOWN MANAGER

E. RUSSELL BAILEY



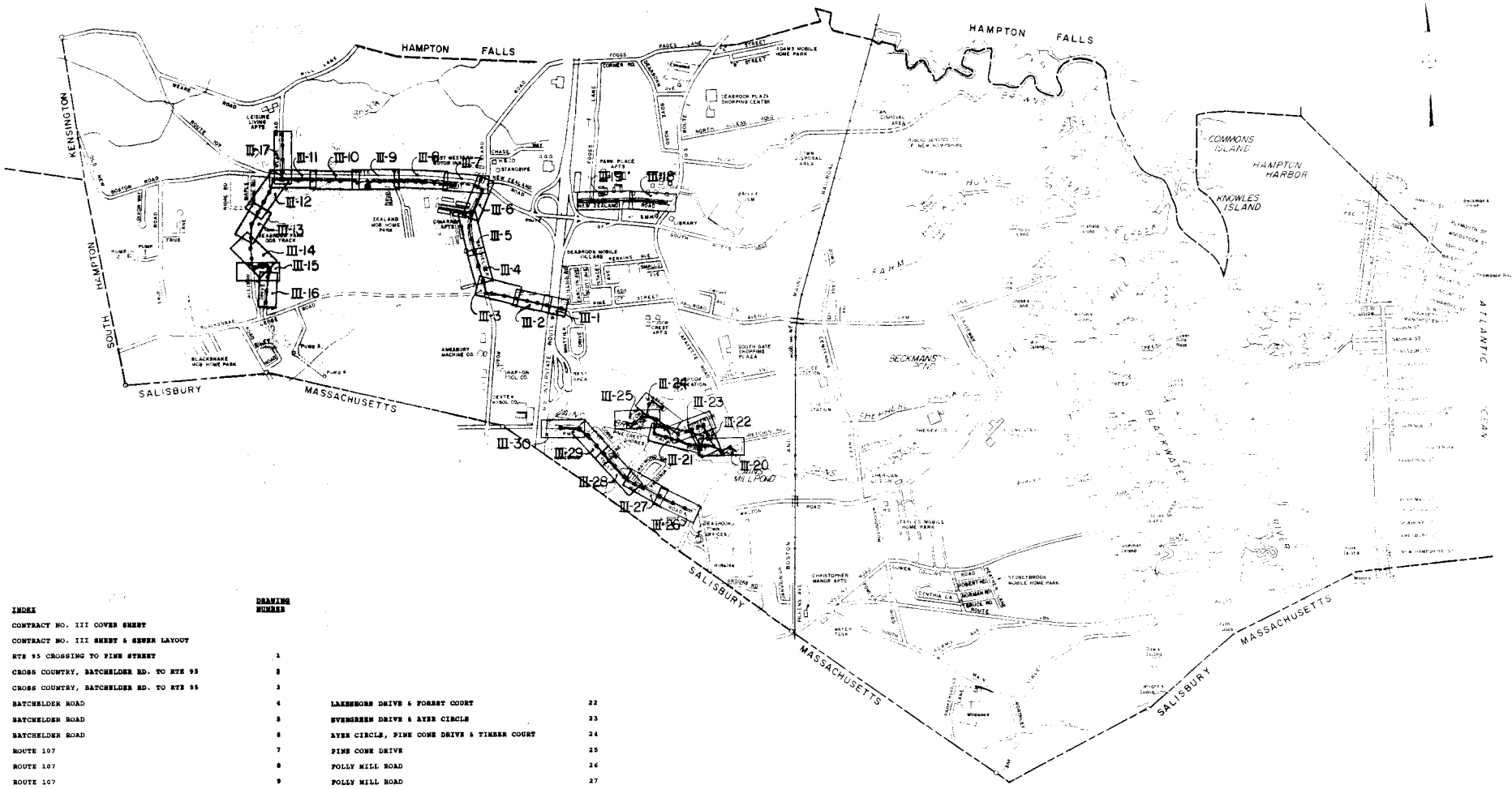
LOCATION PLAN

SCALE: 1" = 2000'

LEGEND

- PROPOSED SANITARY SEWER WITH LATERAL
- EXISTING SANITARY SEWER WITH LATERAL
- SANITARY SEWER WITH PROFILE ON ANOTHER SHEET
- FORCE MAIN
- PUMP STATION (PROPOSED/EXISTING) P.S. / P.S.
- OCEAN OUTFALL WITH STATIONING 2' 00
- MANHOLE (PROPOSED/EXIST.NG) M.H. / M.H.
- CATCH BASIN (PROPOSED/EXISTING) C.B. / C.B.
- CULVERT 12"C.M.P.
- HYDRANT HYD
- WATER MAIN W
- WATER VALVE/WATER SERVICE W.V. / W.S.
- GAS MAIN G
- GAS VALVE/GAS SERVICE G.V. / G.S.
- UNDERGROUND TELEPHONE/ELECTRICAL T / E
- STREAM/BROOK
- POND/WET AREA
- RIVER
- WOODS AND/OR BRUSH LINE
- APPROXIMATE TOWN/STATE LINE
- APPROXIMATE RIGHT-OF-WAY LINE
- EXISTING CONTOUR 50
- PROPOSED CONTOUR 50
- LEDGE OUTCROP
- RETAINING WALL
- GUARD RAIL
- STONE WALL
- FENCE X X X X
- CONIFEROUS/DECIDUOUS TREES
- SHRUBS OR BUSH
- HOUSE OR BUILDING
- HOUSE NUMBER 34
- HOUSE WITH SEWER SERVICE S
- UTILITY POLE
- LAMP POLE L.P.
- MAILBOX M.B.
- SIGN
- BASELINE CONTROL POINT M-1
- PIPE INSULATION
- FABRIC FENCE (SILTATION CONTROL)

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.



INDEX	DRAWING NUMBER
CONTRACT NO. III COVER SHEET	
CONTRACT NO. III SHEET & SEWER LAYOUT	
RTE 95 CROSSING TO PINE STREET	1
CROSS COUNTRY, BATCHELDER RD. TO RTE 95	2
CROSS COUNTRY, BATCHELDER RD. TO RTE 95	3
BATCHELDER ROAD	4
BATCHELDER ROAD	5
BATCHELDER ROAD	6
ROUTE 107	7
ROUTE 107	8
ROUTE 107	9
ROUTE 107	10
ROUTE 107	11
ROUTE 107	12
RACE TRACK	13
RACE TRACK TO ALLISON DRIVE	14
ALLISON DRIVE	15
ALLISON DRIVE	16
WEARE ROAD	17
NEW ZEALAND ROAD	18
NEW ZEALAND ROAD	19
LAKESHORE DRIVE & FOREST DRIVE	20
FOREST DRIVE & AYER CIRCLE	21
LAKESHORE DRIVE & FOREST COURT	22
EVERGREEN DRIVE & AYER CIRCLE	23
AYER CIRCLE, PINE COME DRIVE & TIMBER COURT	24
PINE COME DRIVE	25
FOLLY MILL ROAD	26
FOLLY MILL ROAD	27
FOLLY MILL ROAD	28
FOLLY MILL ROAD	29
FOLLY MILL ROAD	30
EROSION CONTROL DETAILS	31
STANDARD MANHOLE DETAILS, SHEET 1	32
STANDARD MANHOLE DETAILS, SHEET 2	33
STANDARD TRENCH SECTIONS	34
MISCELLANEOUS DETAILS	35
SLEEVE & JACKING DETAILS	36
HOUSE SEWER DETAILS	37

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE — BRADFORD — NO. 3218 — REGISTERED PROFESSIONAL ENGINEER

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
0	PJS	01/89	HEF	JOE	BHS	01/89

ISSUED FOR APPROVAL

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CONTRACT NO. III
SHEET AND SEWER LAYOUT

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

1444/8704 — III — 37

NOTE:
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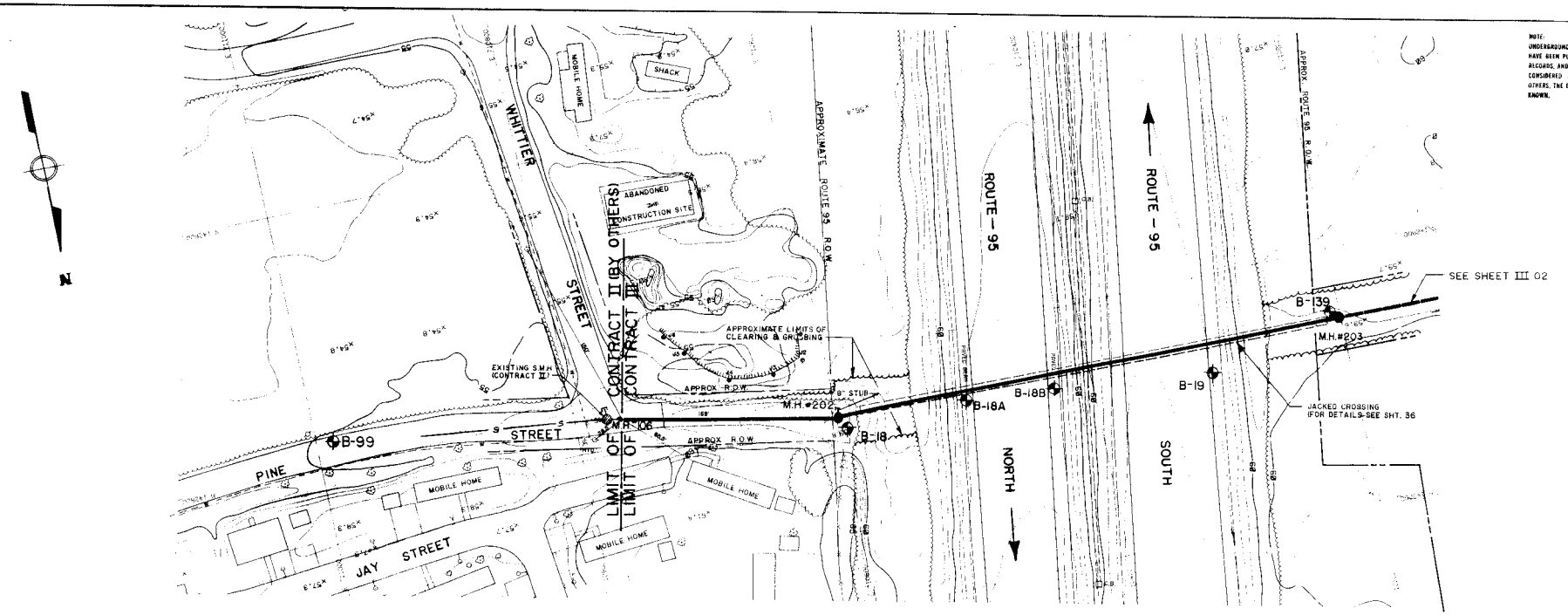
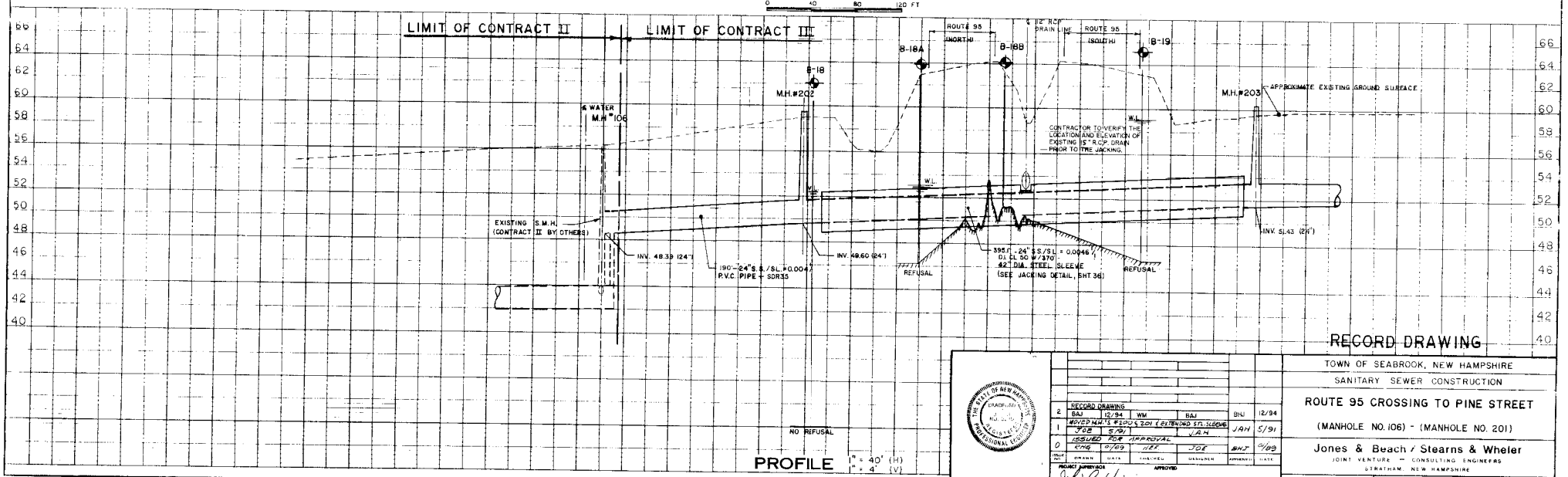


PLAN 1" = 40'
0 40 80 120 FT


LIMIT OF CONTRACT II
LIMIT OF CONTRACT III
ROUTE 95 (NORTH)
ROUTE 95 (SOUTH)
12" RCP DRAIN LINE
B-18A
B-18B
B-19
B-18
M.H.#202
M.H.#203
8" WATER
M.H. 106
APPROXIMATE EXISTING GROUND SURFACE
CONTRACTOR TO VERIFY THE LOCATION AND ELEVATION OF EXISTING 15" R.C.P. DRAIN PRIOR TO THE JACKING.
W.L.
EXISTING S.M.H. (CONTRACT II BY OTHERS)
INV. 48.39 (24")
INV. 49.60 (24")
190'-24" S.& S./SL.=0.004" P.V.C. PIPE - SDR35
395 ft. - 24" S.S./S.L. = 0.0046 / EL 50 @ 370' - 42" DIA. STEEL SLEEVE (SEE JACKING DETAIL, SHT 36)
REFUSAL
INV. 51.43 (24")
NO REFUSAL
66 64 62 60 58 56 54 52 50 48 46 44 42 40

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

RECORD DRAWING						
2	BAJ	12/94	WM	BAJ	BHJ	12/94
1	MOVED MH'S #202 & 201 & EXTENDED ST. SLEEVE			JAH	JAH	5/91
	JOE	5/91		JAH		
0	ISSUED FOR APPROVAL			JOE	BHJ	6/89
	ENG	6/89	HEF			
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

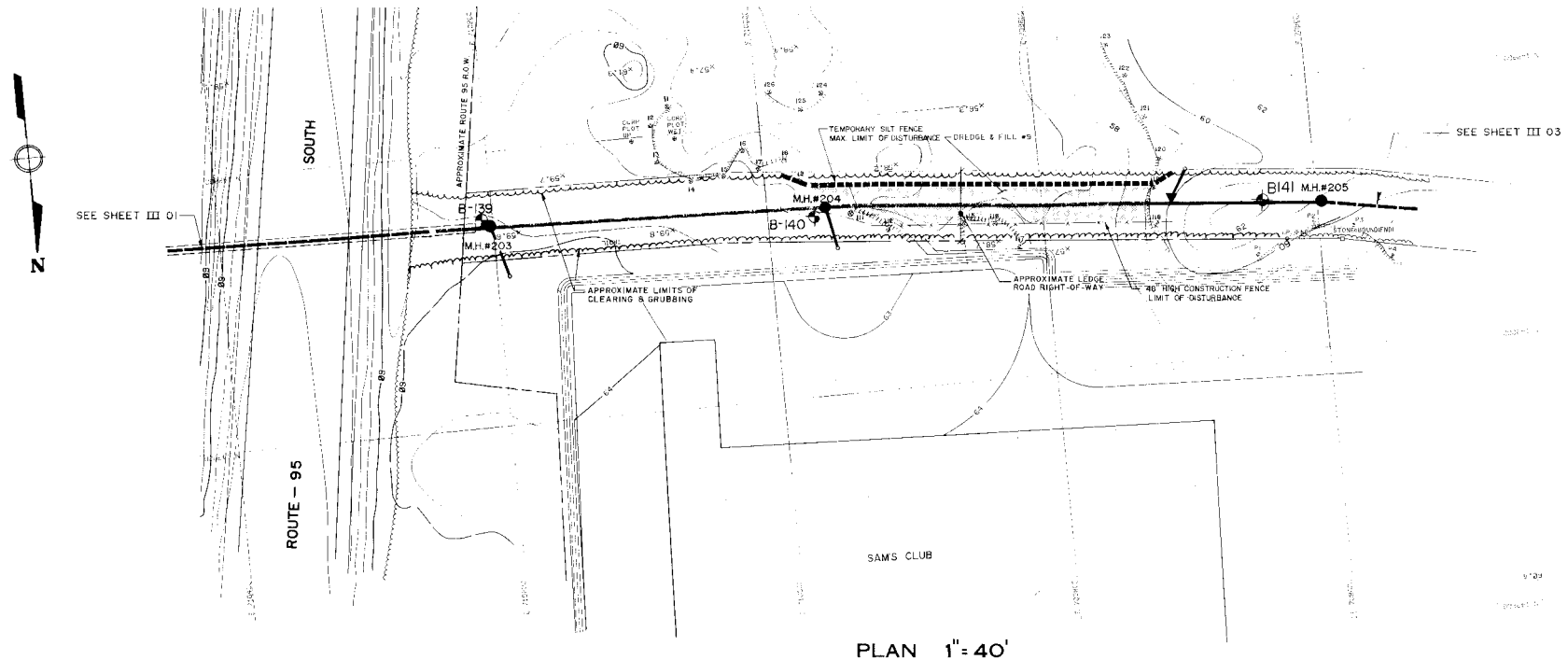
PROJECT SURVEYOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
ROUTE 95 CROSSING TO PINE STREET
(MANHOLE NO. 106) - (MANHOLE NO. 201)

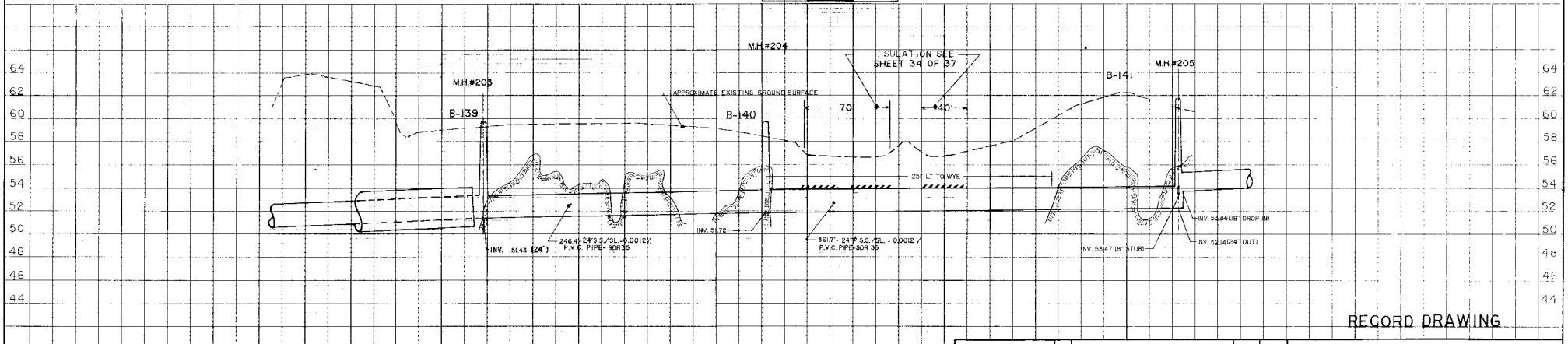
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. III SHEET 01 OF 37

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
4	RECORD DRAWING	BAJ	12/94	WM	BAJ	BHJ	12/94
3	MOVED M.H.#102 ADDED CONSTRUCTION FENCE	JDC	5/91		JDC	JAH	5/91
2		AM	8/90	RBJ		JAH	8/90
1	ADDED PIPE INSULATION	WM	10/89	HBJ		JAH	10/89
0	ISSUED FOR APPROVAL	RHG	9/89	HEF	JOE	BHJ	9/89

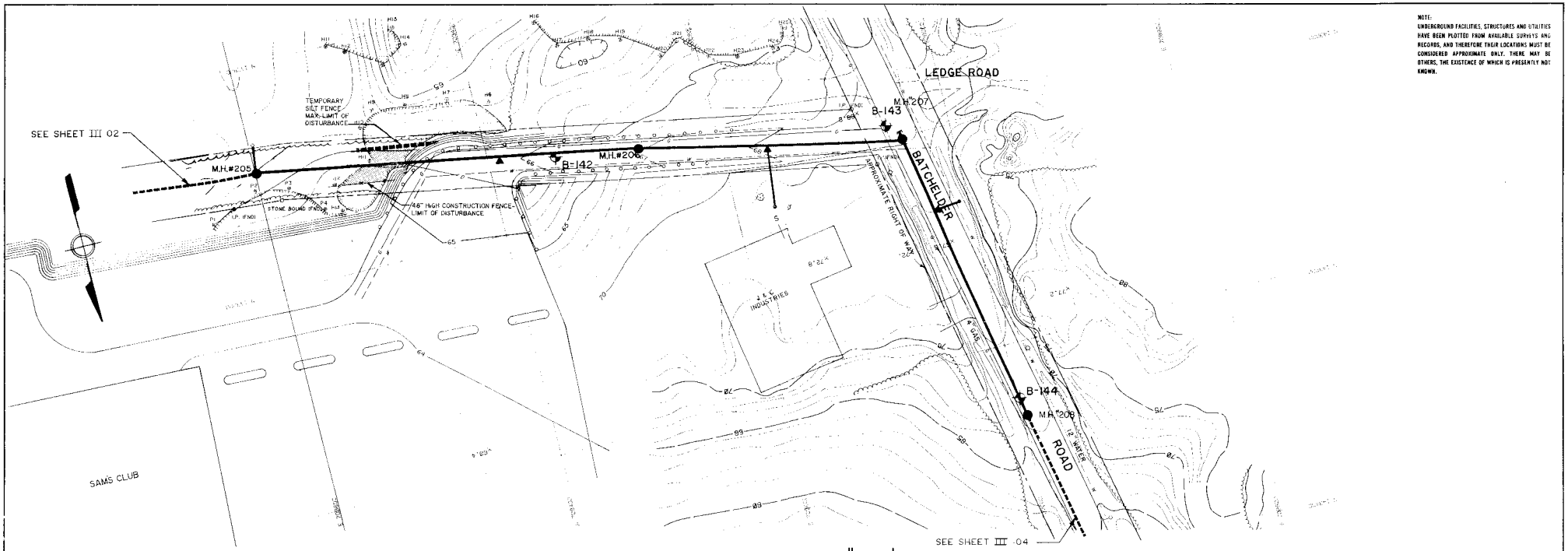
PROJECT SUPERVISOR: John C. Higgins — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
CROSS COUNTRY
BATCHELDER ROAD TO ROUTE 95
(MANHOLE NO.202)- (MANHOLE NO 204)

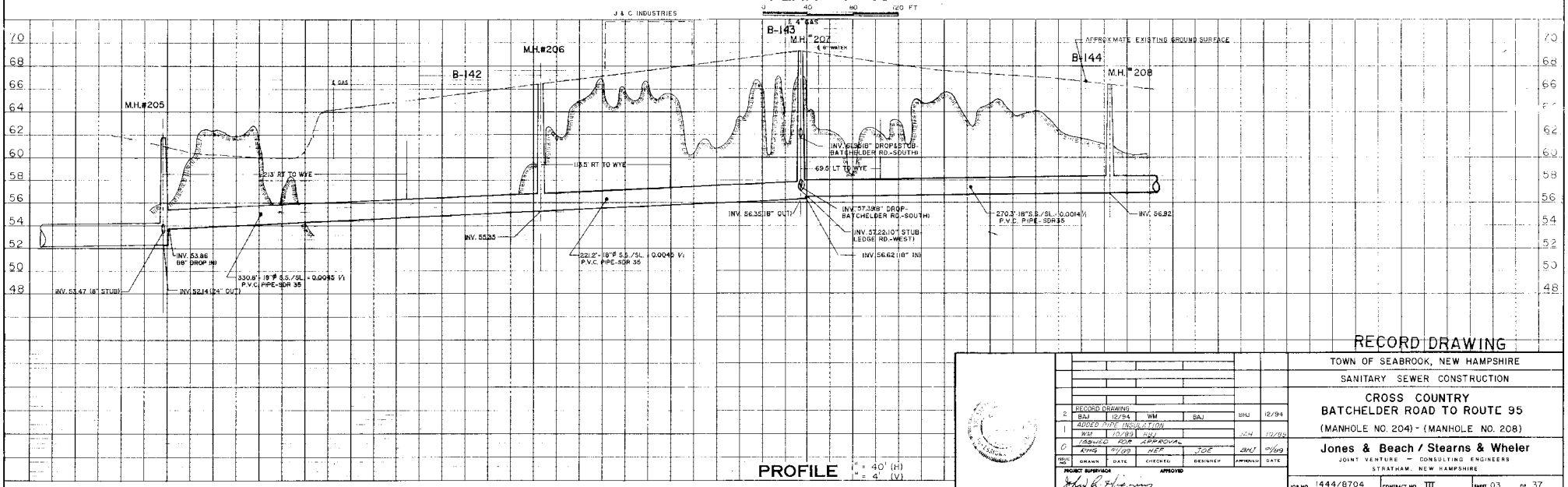
Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 02 OF 37

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

2	RECORD DRAWING					BHJ	12/94
	BAJ	12/94	WM		BAJ		
1	ADDED PIPE INSULATION					JAH	12/18
	WM	10/89	BHJ				
0	ISSUED FOR APPROVAL					BHJ	9/89
	KMS	9/89	HEF		JOE		
ISSUE NO.	DRAWN	DATE	CHECKED		DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

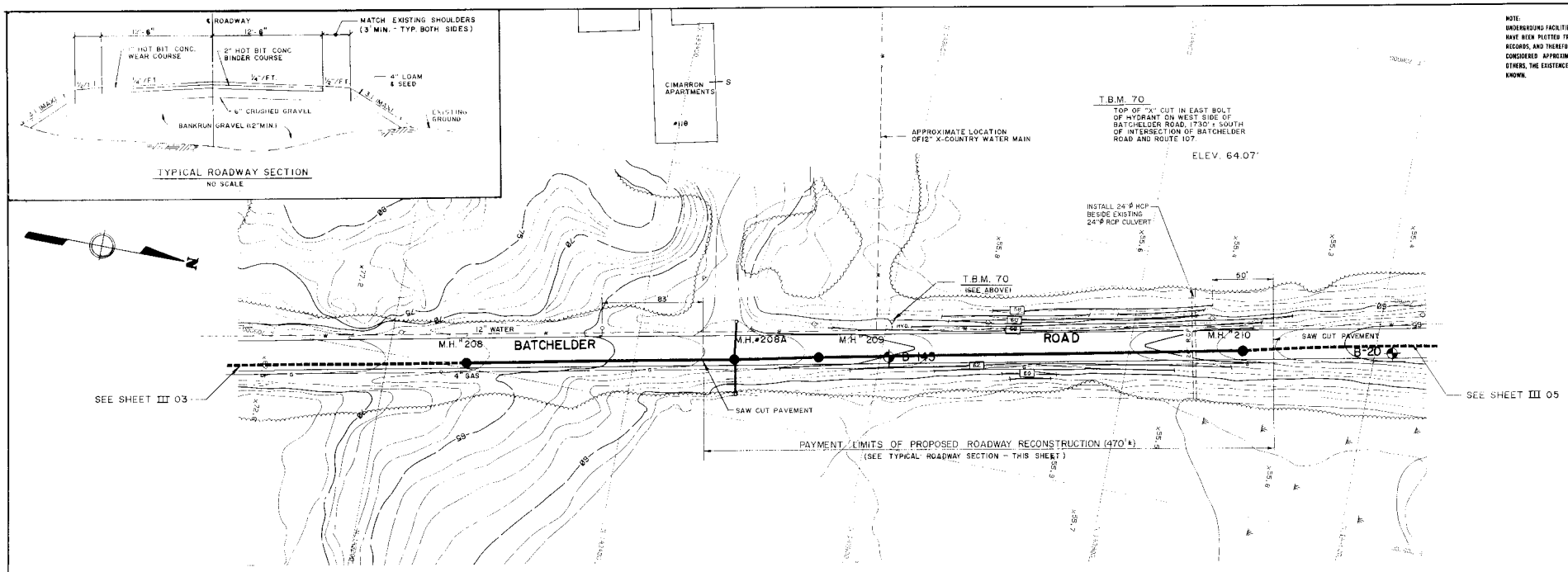
CROSS COUNTRY
BATCHELDER ROAD TO ROUTE 95
(MANHOLE NO. 204) - (MANHOLE NO. 208)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 03 OF 37

TYPICAL ROADWAY SECTION

NO SCALE



NOTE:
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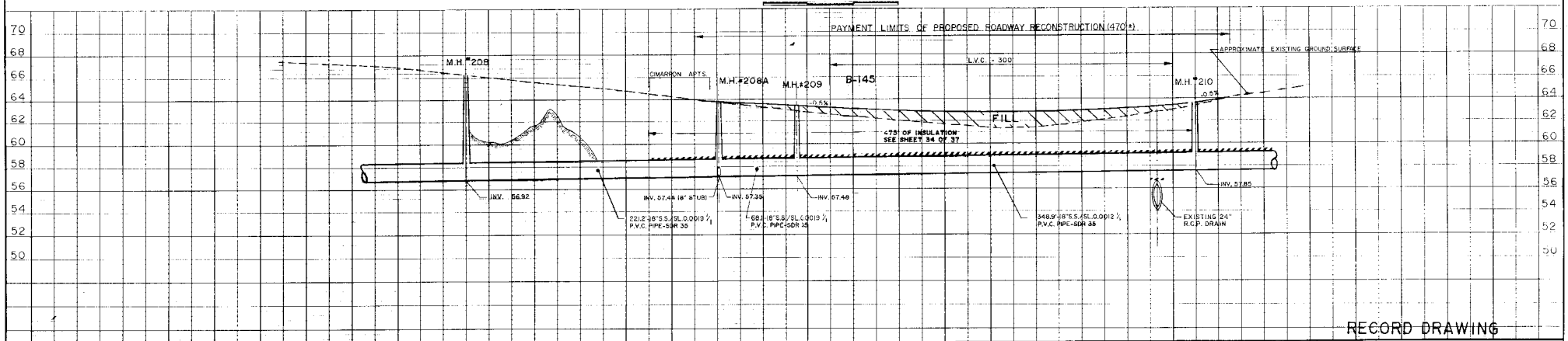
PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BATCHELDER ROAD

(MANHOLE NO. 208) - (MANHOLE NO. 210)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

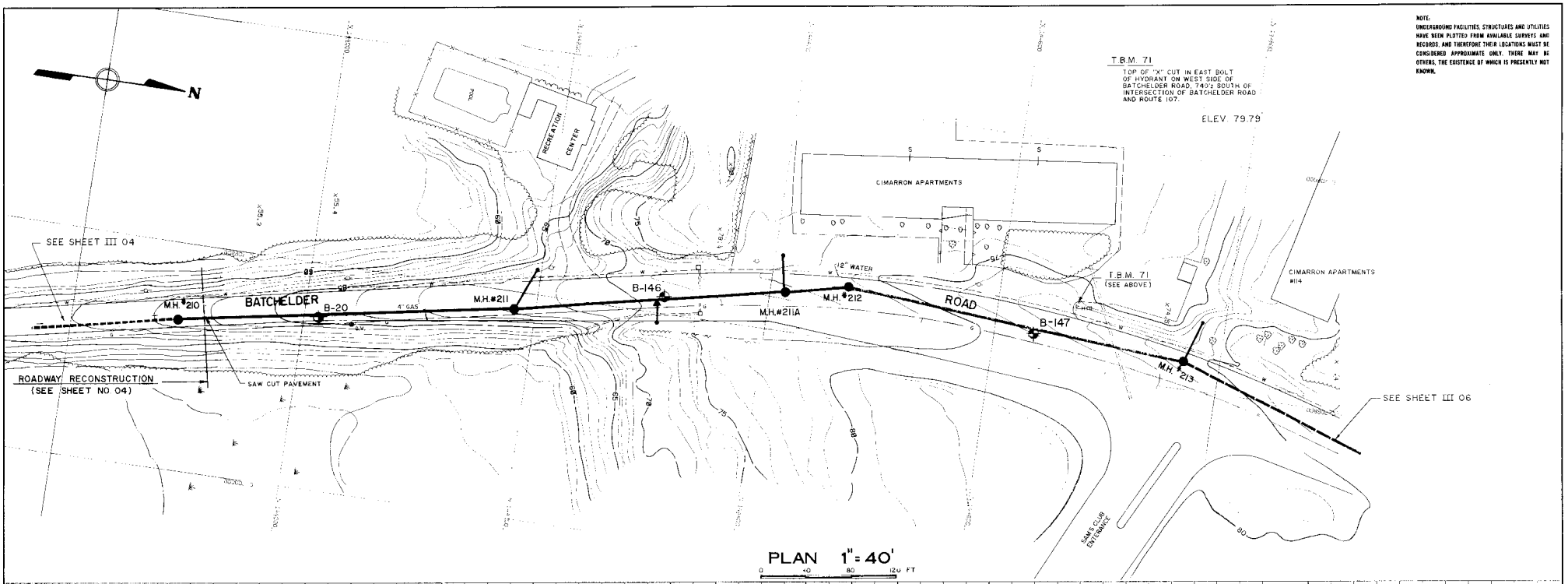
STRATHAM, NEW HAMPSHIRE

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING BAJ	2/94	WW	BAJ	BHJ	12/94
2	ADDED M.H.#208A EM	6/94	RBJ	RBJ	RBJ	6/94
1	ADDED PIPE INSULATION WW	10/93	RBJ		JAH	10/93
0	ISSUED FOR APPROVAL EMS	9/89	MER	JOE	BHJ	9/89

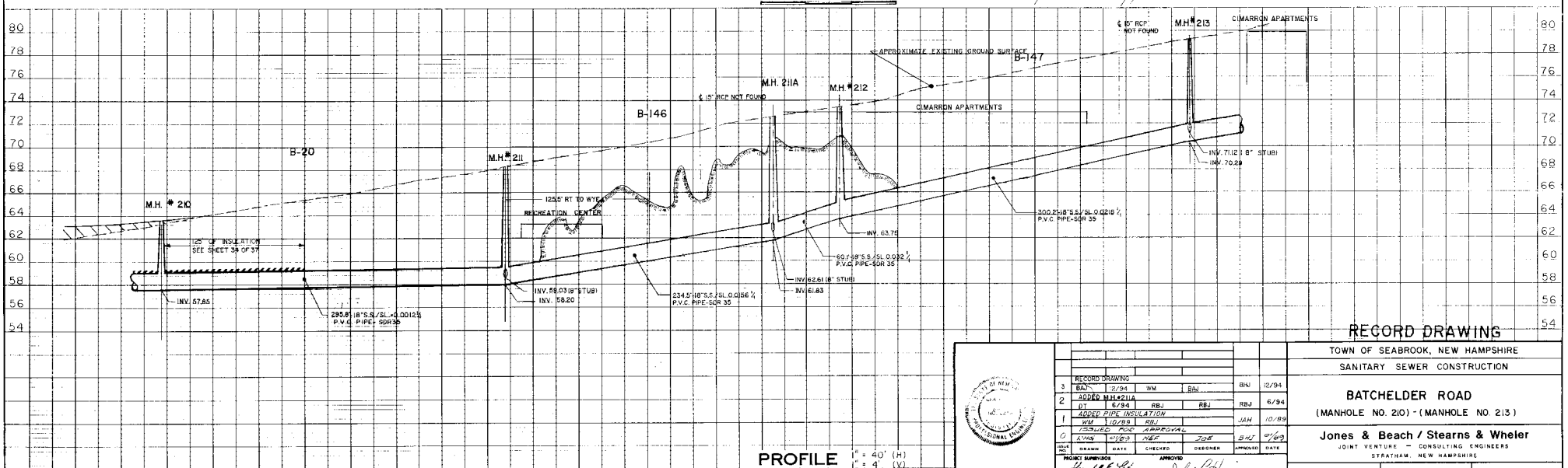
PROJECT SURVEYOR APPROVED

JOB NO. 1444/8704 CONTRACT NO. III SHEET 04 OF 37

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

						BWJ	12/94
3	RECORD DRAWING						
	BAJ	12/94	WM		BAJ		
2	ADDED M.H.#211A					RBJ	6/94
	DT	6/94	RBJ		RBJ		
1	ADDED PIPE INSULATION					JAH	10/89
	WM	10/89	RBJ				
0	ISSUED FOR APPROVAL					BWJ	6/89
	KMH	6/89	NEF		JOB		
ISSUE NO.	DRAWN	DATE	CHECKED		DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: Harold E. Rice
APPROVED: John R. Stearns

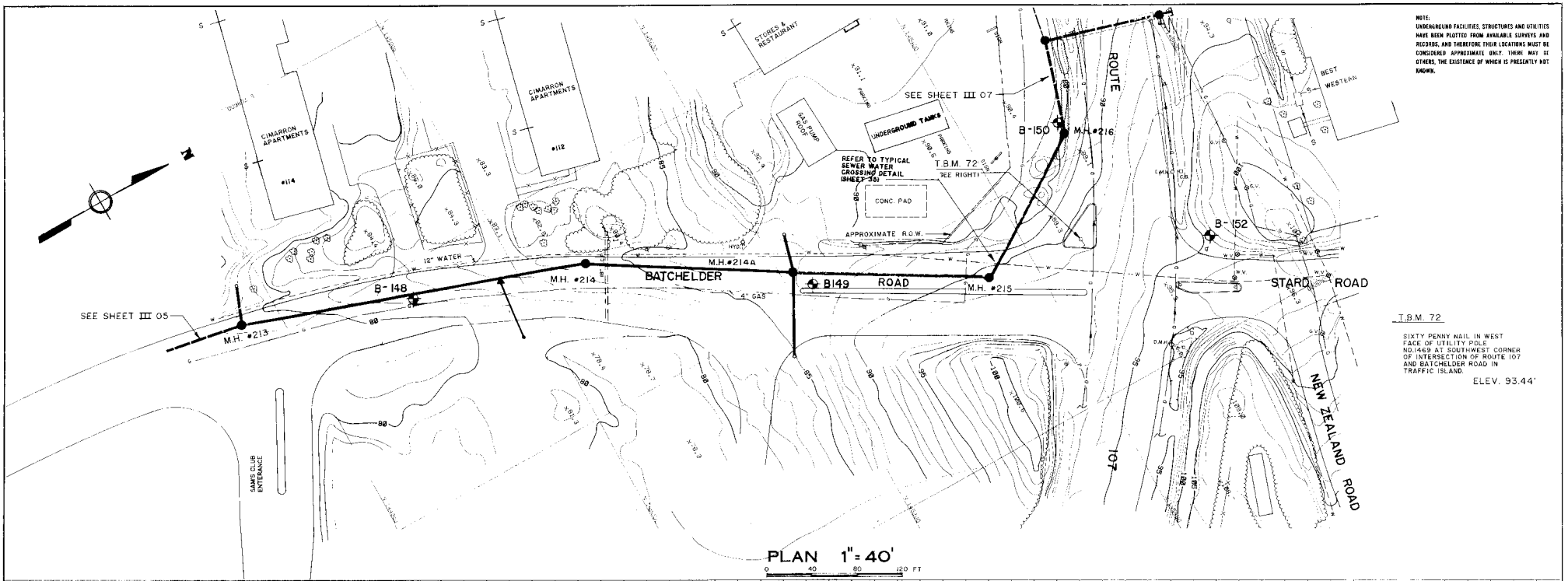
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

BATCHELDER ROAD
(MANHOLE NO. 210) - (MANHOLE NO. 213)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 05 OF 37

STRATHAM, NC 526267



NOTE:
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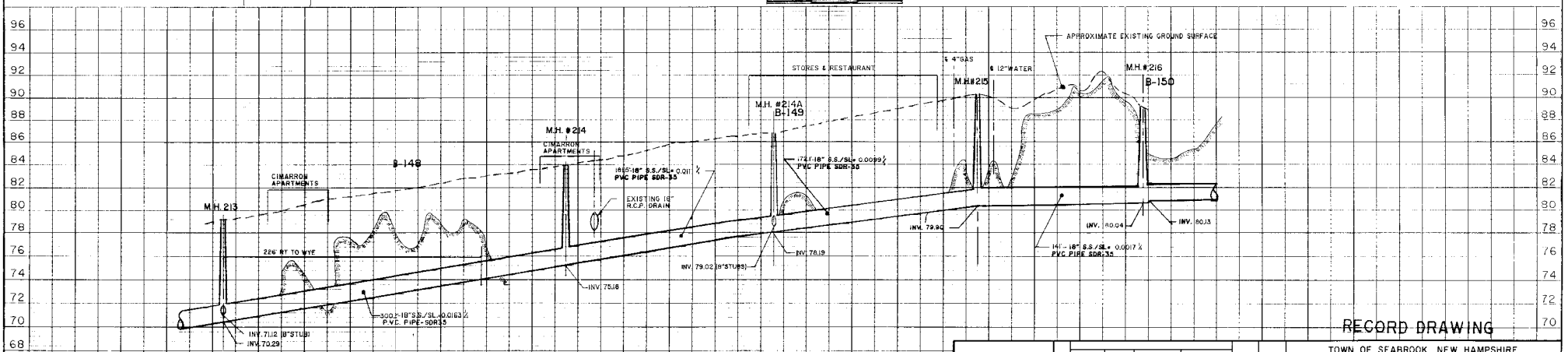
T.B.M. 72

SIXTY PENNY NAIL IN WEST FACE OF UTILITY POLE NO.1469 AT SOUTHWEST CORNER OF INTERSECTION OF ROUTE 107 AND BATCHELDER ROAD IN TRAFFIC ISLAND.

ELEV. 93.44'

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD DRAWING BAJ 12/94		WM	RBJ	BHJ	12/94
2	LOWED SEWER FROM M.H.#214A TO M.H.#216 EM 7/94		RBJ	RBJ	RBJ	7/94
1	ADDED M.H.#214A EM 6/94		RBJ	RBJ	RBJ	6/94
0	RHG	4/20	ISSUED FOR APPROVAL NEW	JOE	BHJ	4/20/94

PROJECT SUPERVISOR: Robert
APPROVED: John S. Chagnon

TOWN OF SEABROOK, NEW HAMPSHIRE

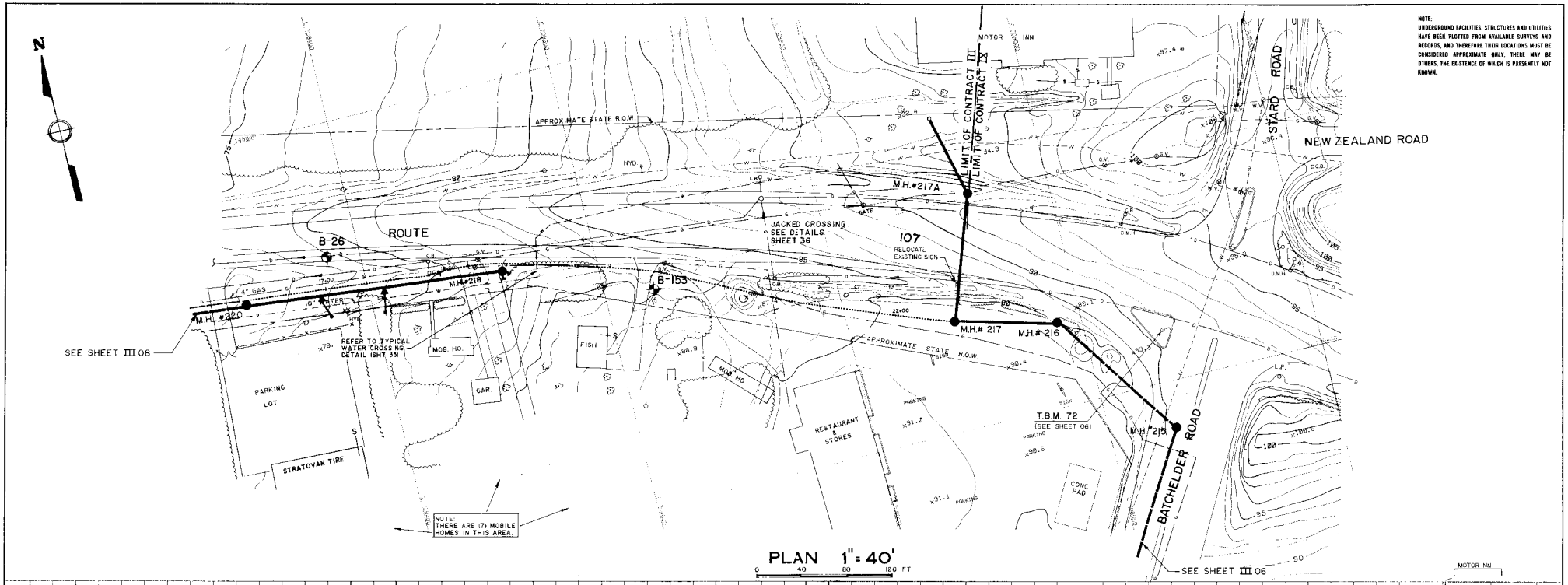
SANITARY SEWER CONSTRUCTION

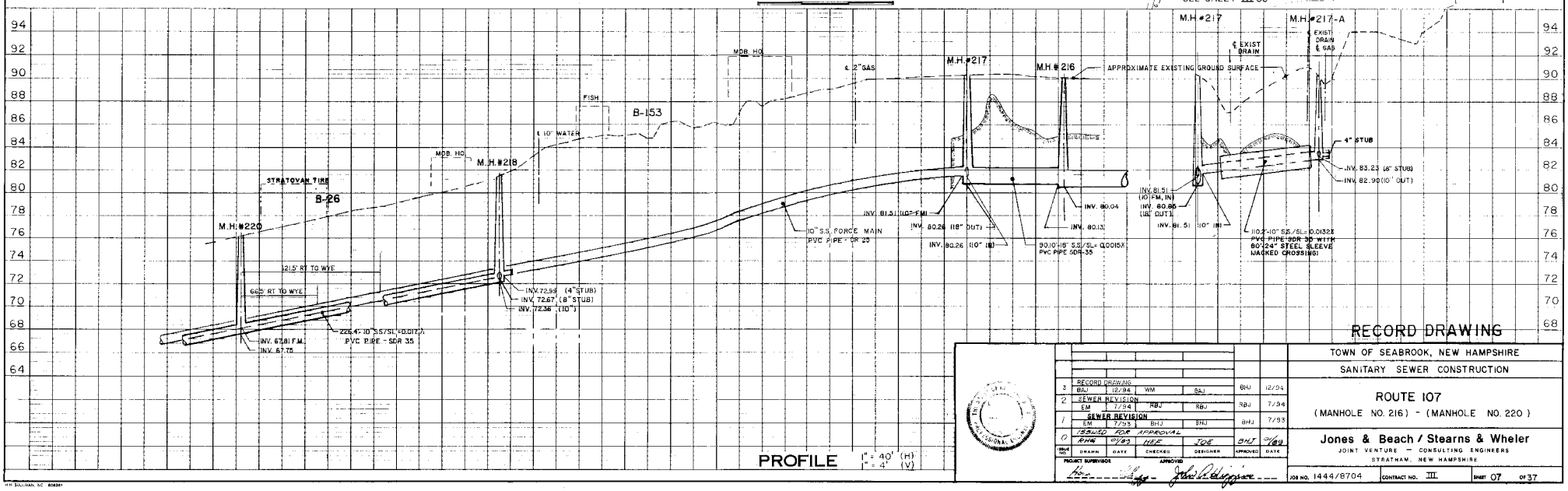
BATCHELDER ROAD

(MANHOLE NO.213) - (MANHOLE NO.217)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. III SHEET 06 OF 37





RECORD DRAWING

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING BAJ 12/94		WM	BAJ	BHJ	12/94
2	SEWER REVISION EM 7/94		RBJ	RBJ	RBJ	7/94
1	SEWER REVISION EM 7/93		BHJ	BHJ	BHJ	7/93
0	ISSUED FOR APPROVAL RMH 6/93		HEE	JOE	BHJ	7/93

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 107

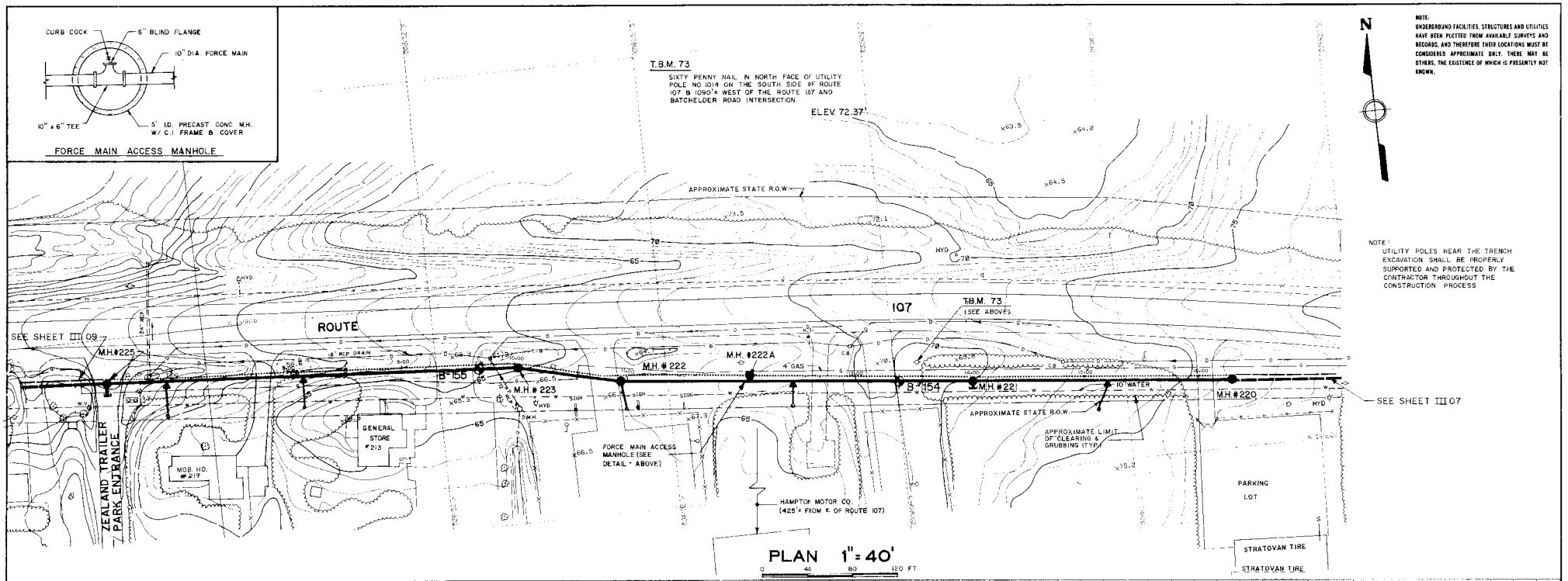
(MANHOLE NO. 216) - (MANHOLE NO. 220)

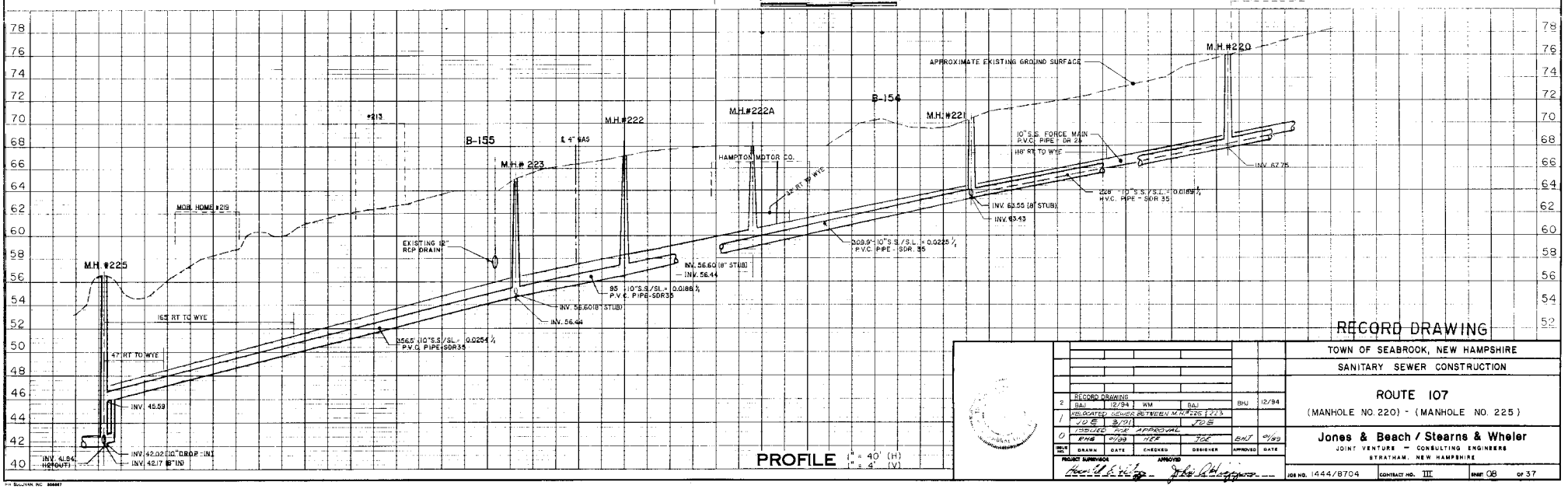
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 07 OF 37


CURB COCK
6" BLIND FLANGE
10" DIA. FORCE MAIN
10" x 6" TEE
5' I.D. PRECAST CONC. M.H. W/ C.I. FRAME & COVER
FORCE MAIN ACCESS MANHOLE
T.B.M. 73
SIXTY PENNY NAIL IN NORTH FACE OF UTILITY POLE NO. 1014 ON THE SOUTH SIDE OF ROUTE 107 & 1090'± WEST OF THE ROUTE 107 AND BATCHELDER ROAD INTERSECTION.
ELEV. 72.37'
N
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
NOTE: UTILITY POLES NEAR THE TRENCH EXCAVATION SHALL BE PROPERLY SUPPORTED AND PROTECTED BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS
APPROXIMATE STATE R.O.W.
ROUTE
107
T.B.M. 73 (SEE ABOVE)
SEE SHEET III 09
M.H.#225
M.H.#223
M.H.#222
M.H.#222A
M.H.#221
M.H.#220
B-155
B-154
4" GAS
10" WATER
18" RCP DRAIN
GENERAL STORE #213
MOB. HO. #219
ZEALAND TRAILER PARK ENTRANCE
FORCE MAIN ACCESS MANHOLE (SEE DETAIL - ABOVE)
HAMPTON MOTOR CO. (425'± FROM ℄ OF ROUTE 107)
APPROXIMATE LIMIT OF CLEARING & GRUBBING (TYP.)
PARKING LOT
STRATOVAN TIRE
SEE SHEET III 07
PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

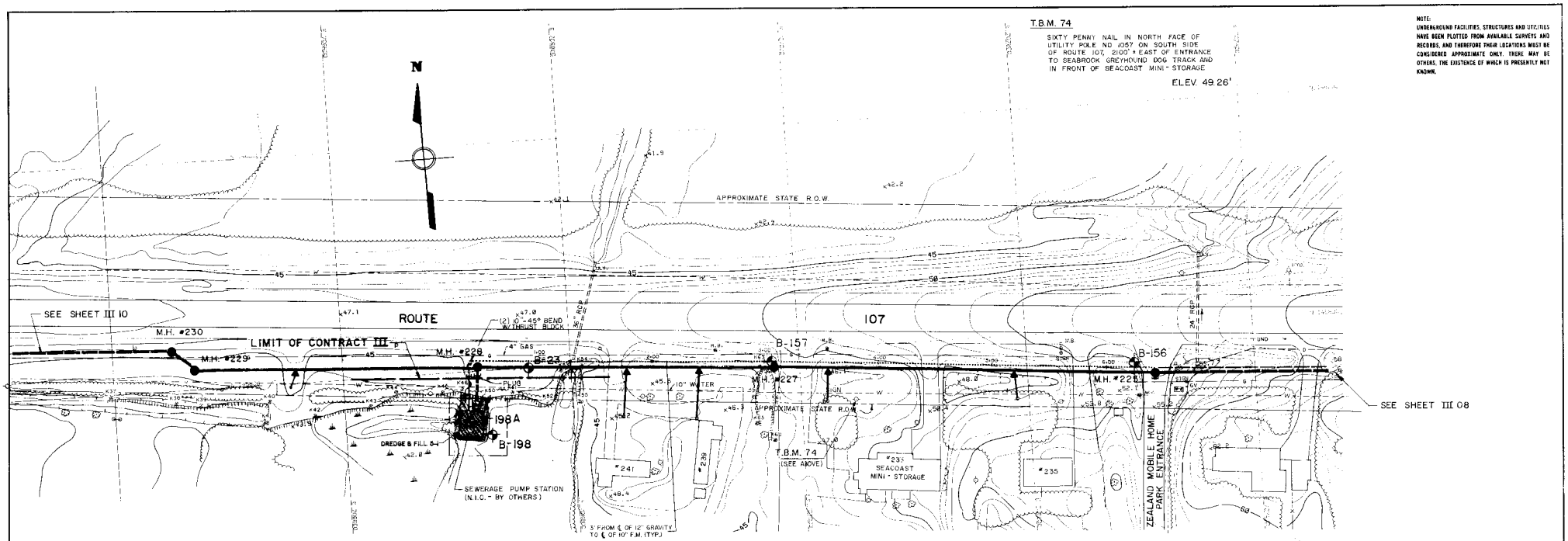
NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	BAJ	12/94	WM	BAJ	BHJ	12/94
	RECORD DRAWING					
1	JDS	3/91		JDB		
	REVISED PER APPROVAL					
0	RHS	9/89	HEF		BHJ	9/89
	ISSUED FOR APPROVAL					

PROJECT SUPERVISOR: Howard E. Stearns
APPROVED: John H. Jones, Engineer

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
ROUTE 107
(MANHOLE NO. 220) - (MANHOLE NO. 225)

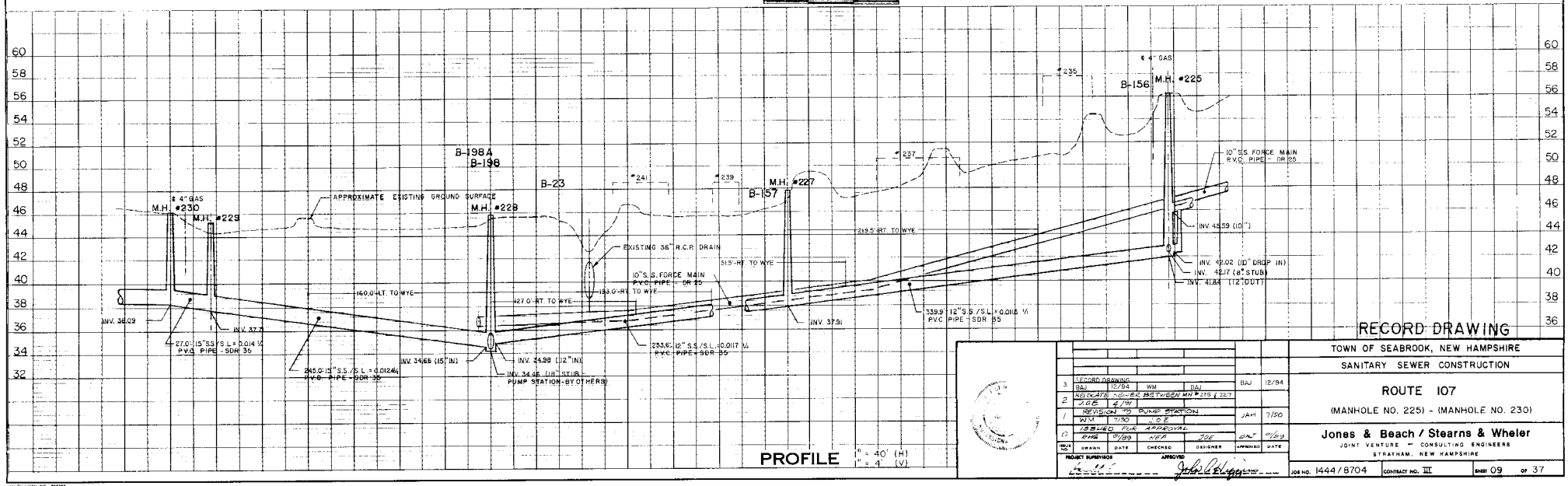
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 08 OF 37


T.B.M. 74
SIXTY PENNY NAIL IN NORTH FACE OF UTILITY POLE NO 1057 ON SOUTH SIDE OF ROUTE 107, 2100' ± EAST OF ENTRANCE TO SEABROOK GREYHOUND DOG TRACK AND IN FRONT OF SEACOAST MINI-STORAGE
ELEV. 49.26'
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
N
APPROXIMATE STATE R.O.W.
SEE SHEET III 10
ROUTE
107
M.H. #230
M.H. #229
LIMIT OF CONTRACT III
M.H. #228
B-23
(2) 10"-45° BEND W/THRUST BLOCK
4" GAS
B-157
M.H. #227
B-156
M.H. #225
SEE SHEET III 08
10" WATER
198A
B-198
DREDGE & FILL 84
SEWERAGE PUMP STATION (N.I.C. - BY OTHERS)
3' FROM ℄ OF 12" GRAVITY TO ℄ OF 10" F.M. (TYP.)
T.B.M. 74 (SEE ABOVE)
#241
#239
#233
SEACOAST MINI-STORAGE
#235
ZEALAND MOBILE HOME PARK ENTRANCE

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	BAJ	12/94	WM	BAJ	BAJ	12/94
2	RELOCATE MANHOLE BETWEEN MH #235 & 237	JOE	4/91			JAH	7/90
1	REVISION TO PUMP STATION	WM	7/90	JOE			
0	ISSUED FOR APPROVAL	RHE	9/89	NEA	JOE	GAT	9/89

PROJECT SUPERVISOR: APPROVED: John S. Beach

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 107

(MANHOLE NO. 225) - (MANHOLE NO. 230)

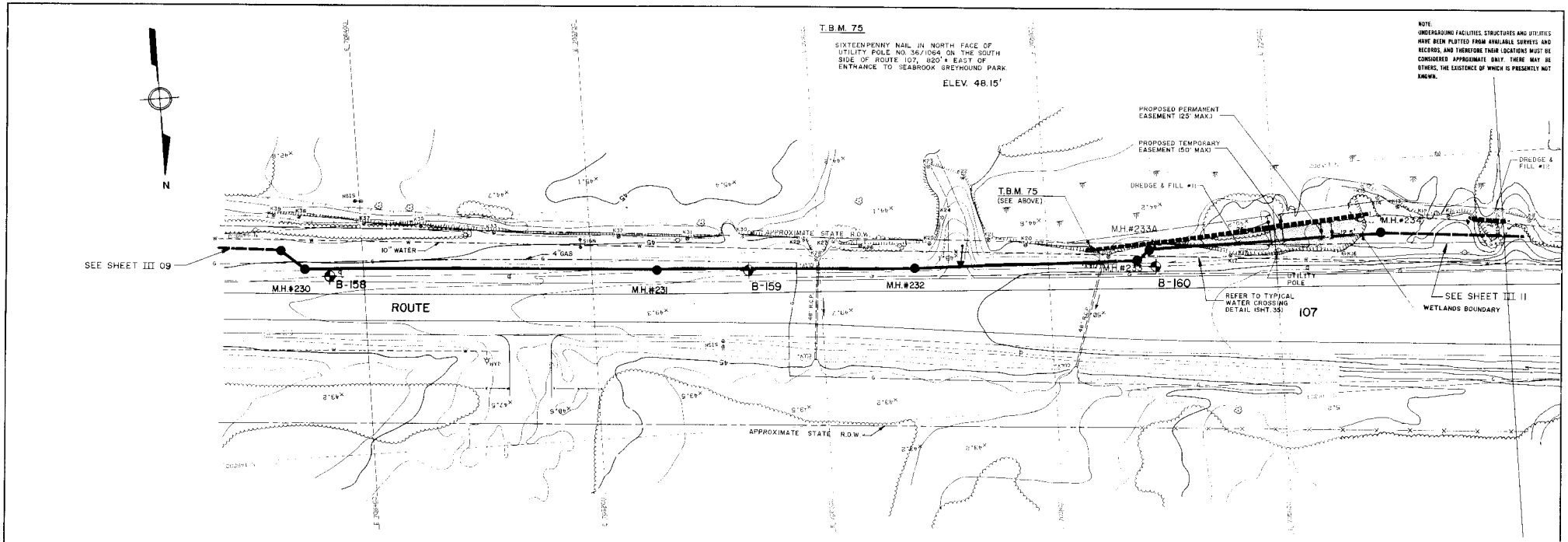
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. III SHEET 09 OF 37

AM SULLIVAN INC 806387


T.B.M. 75
SIXTEEN-PENNY NAIL IN NORTH FACE OF UTILITY POLE NO. 36/1064 ON THE SOUTH SIDE OF ROUTE 107, 820'± EAST OF ENTRANCE TO SEABROOK GREYHOUND PARK.
ELEV. 48.15'
NOTE:
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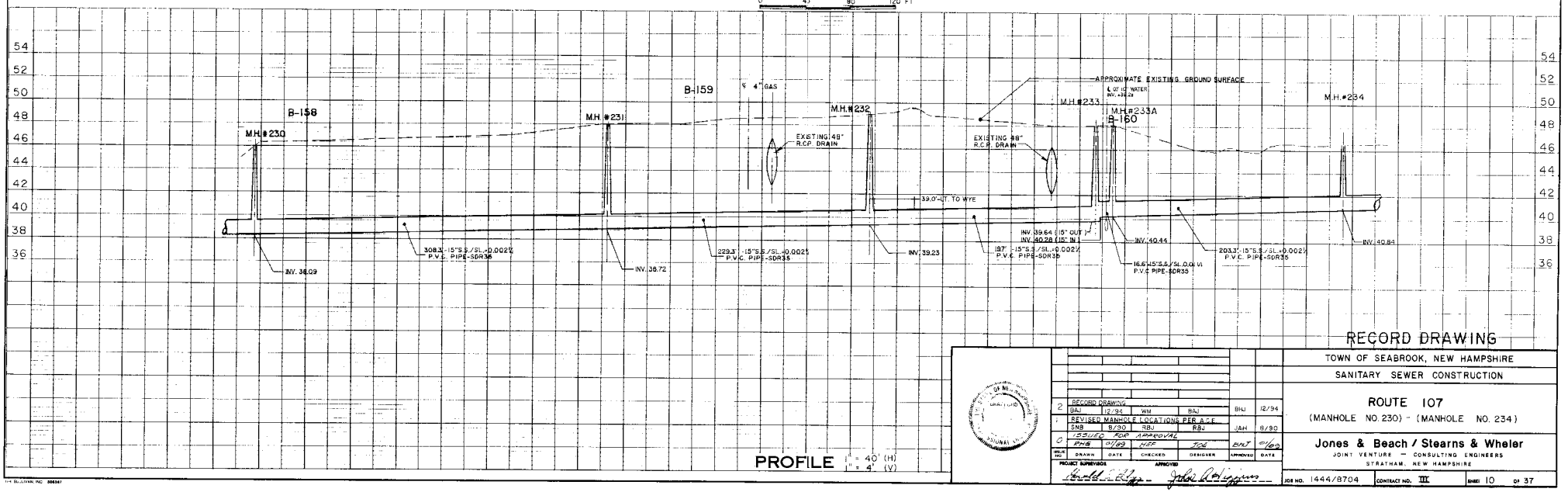
N
SEE SHEET III 09
10" WATER
4" GAS
APPROXIMATE STATE R.O.W.
PROPOSED PERMANENT EASEMENT (25' MAX.)
PROPOSED TEMPORARY EASEMENT (50' MAX.)
DREDGE & FILL #11
DREDGE & FILL #12
T.B.M. 75 (SEE ABOVE)
M.H.#230
M.H.#231
M.H.#232
M.H.#233
M.H.#233A
M.H.#234
B-158
B-159
B-160
ROUTE
107
UTILITY POLE
REFER TO TYPICAL WATER CROSSING DETAIL (SHT. 33)
SEE SHEET III 11
WETLANDS BOUNDARY

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	BAJ	12/94	WM	BAJ	BHJ	12/94
1	REVISED MANHOLE LOCATIONS PER A.C.E.	SNB	8/90	RBJ	RBJ	JAH	8/90
0	ISSUED FOR APPROVAL	PHS	01/89	HEF	JCE	BHJ	01/89

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 107

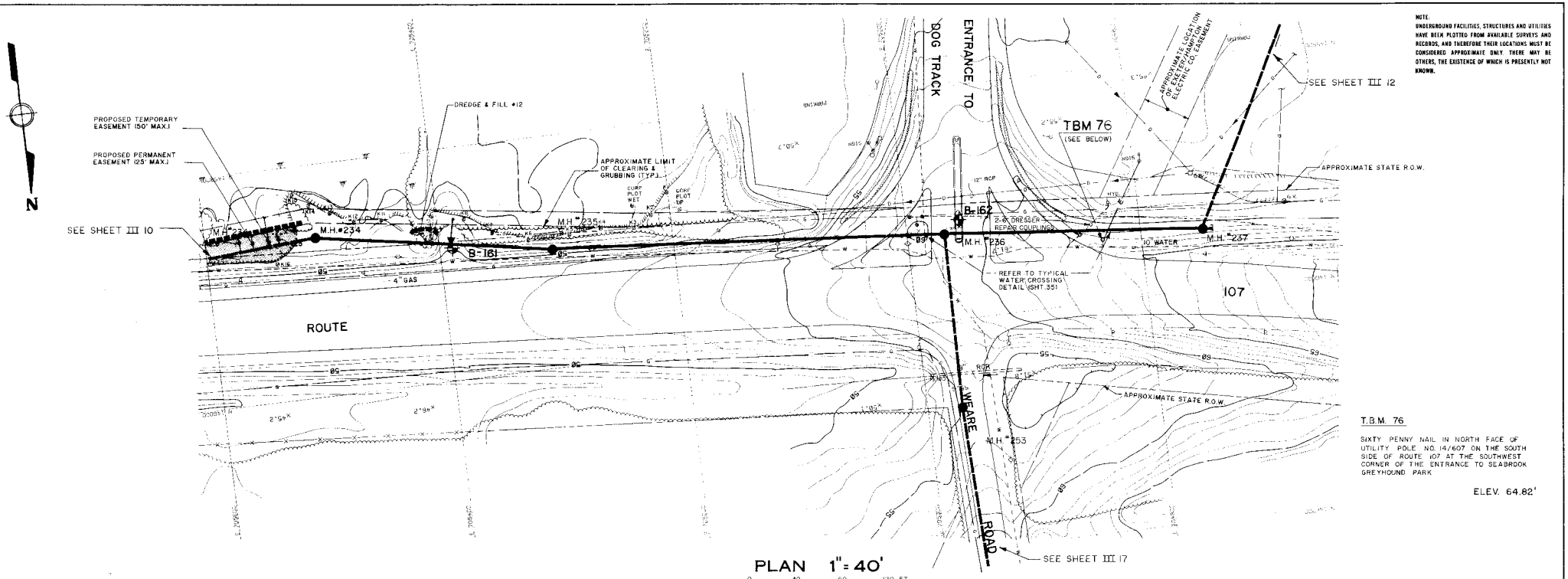
(MANHOLE NO. 230) - (MANHOLE NO. 234)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 10 OF 37



PLAN 1" = 40'

0 40 80 120 FT

T.B.M. 76

SIXTY PENNY NAIL IN NORTH FACE OF UTILITY POLE NO. 14/607 ON THE SOUTH SIDE OF ROUTE 107 AT THE SOUTHWEST CORNER OF THE ENTRANCE TO SEABROOK GREYHOUND PARK

ELEV. 64.82'

NOTE:
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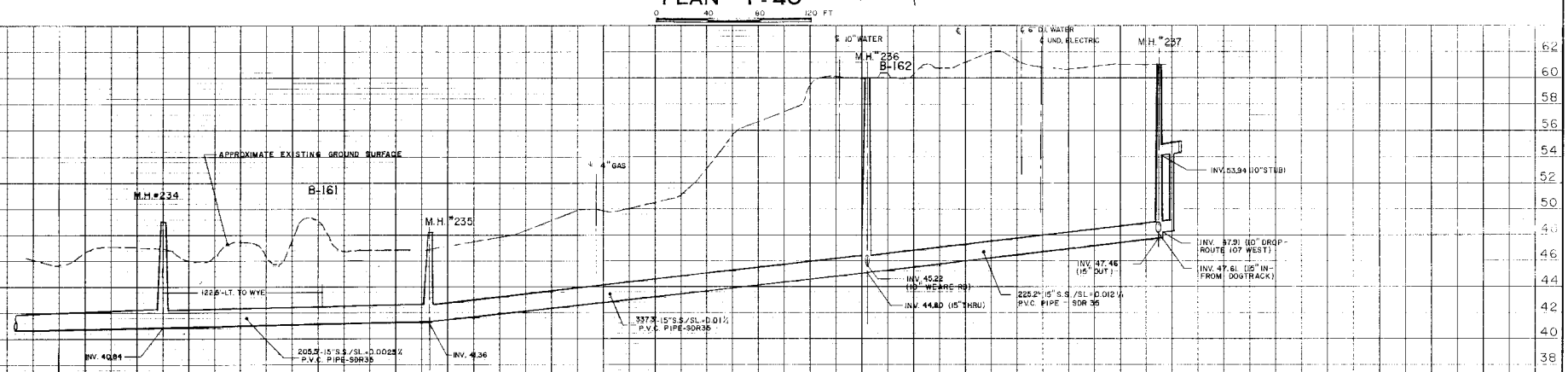

PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	BAJ	12/94	WM	BAJ	BHJ	12/94
1	REVISED FILL LOCATIONS - PER ACE	BAJ	8/94	WM	BAJ	BHJ	8/94
0	ISSUED FOR APPROVAL	RMB	5/93	HEC	JCC	BHJ	5/93

PROJECT SUPERVISOR: H. L. E. Foley
APPROVED: John A. Bisignani

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

ROUTE 107
(MANHOLE NO. 234) - (MANHOLE NO. 237)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 11 OF 37

NOTE:
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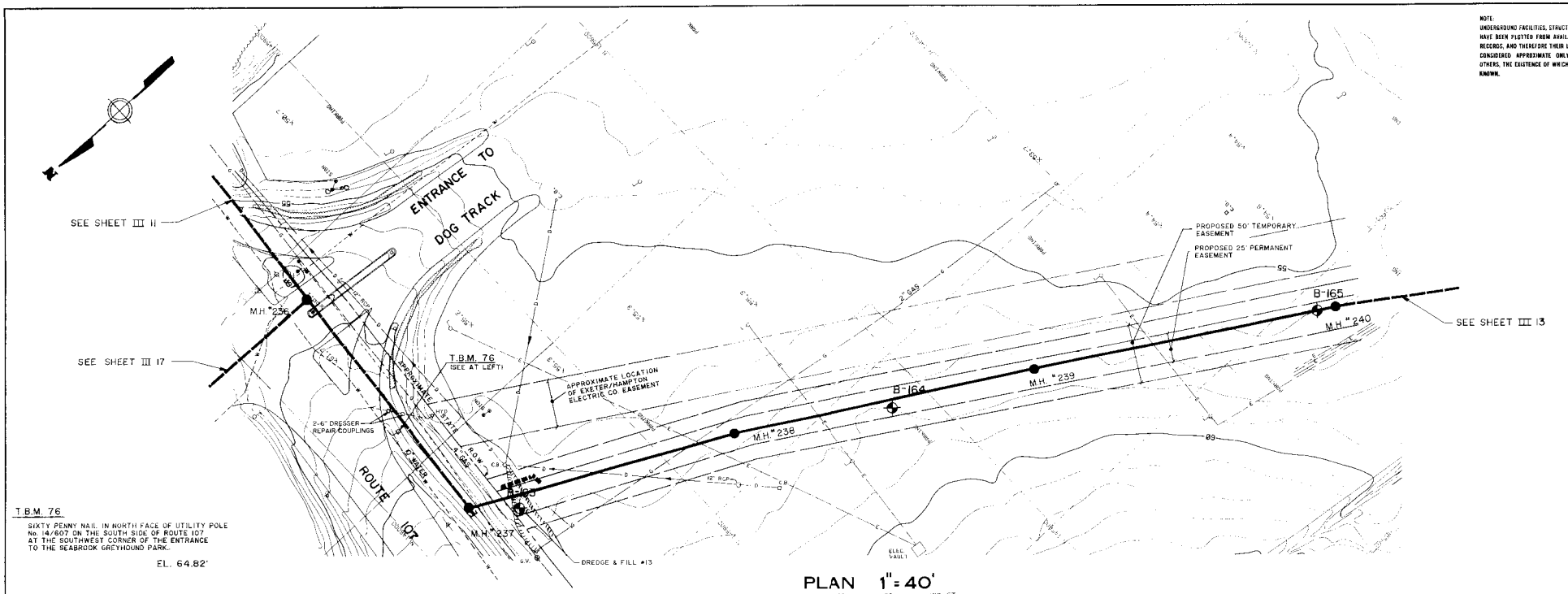


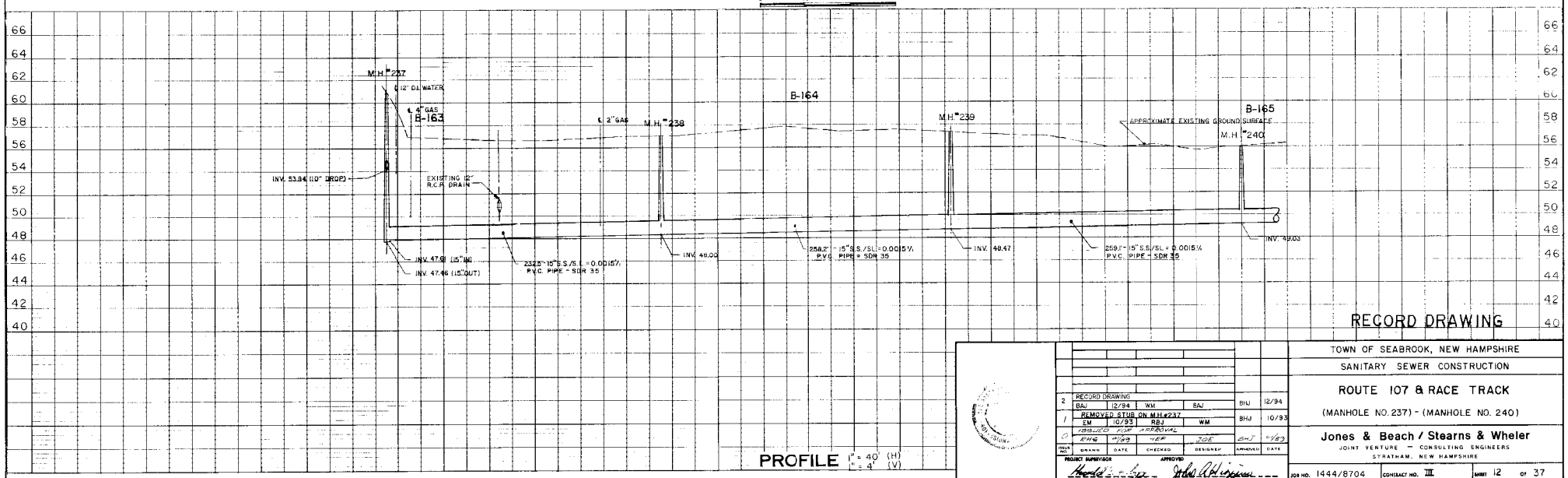
T.B.M. 76

SIXTY PENNY NAIL IN NORTH FACE OF UTILITY POLE No. 14/607 ON THE SOUTH SIDE OF ROUTE 107 AT THE SOUTHWEST CORNER OF THE ENTRANCE TO THE SEABROOK GREYHOUND PARK.

EL. 64.82'

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING				BHJ	12/94
	BAJ	12/94	WM	BAJ		
1	REMOVED STUB ON M.H.#237				BHJ	10/93
	EM	10/93	BAJ	WM		
0	ISSUED FOR APPROVAL				SHJ	7/93
	RHS	7/93	JEF	JOE		

PROJECT SUPERVISOR: Harold E. Lee

APPROVED: John A. Hodgson

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 107 & RACE TRACK

(MANHOLE NO. 237) - (MANHOLE NO. 240)

Jones & Beach / Stearns & Wheler

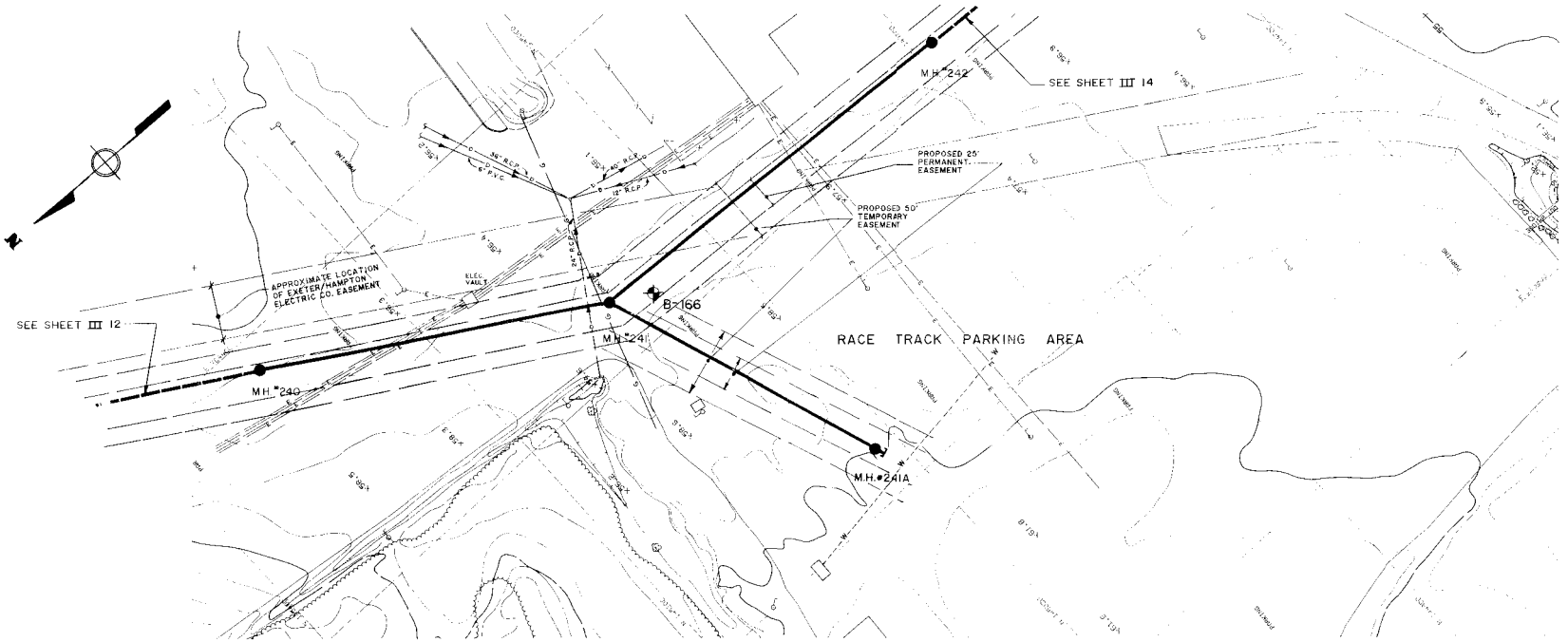
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

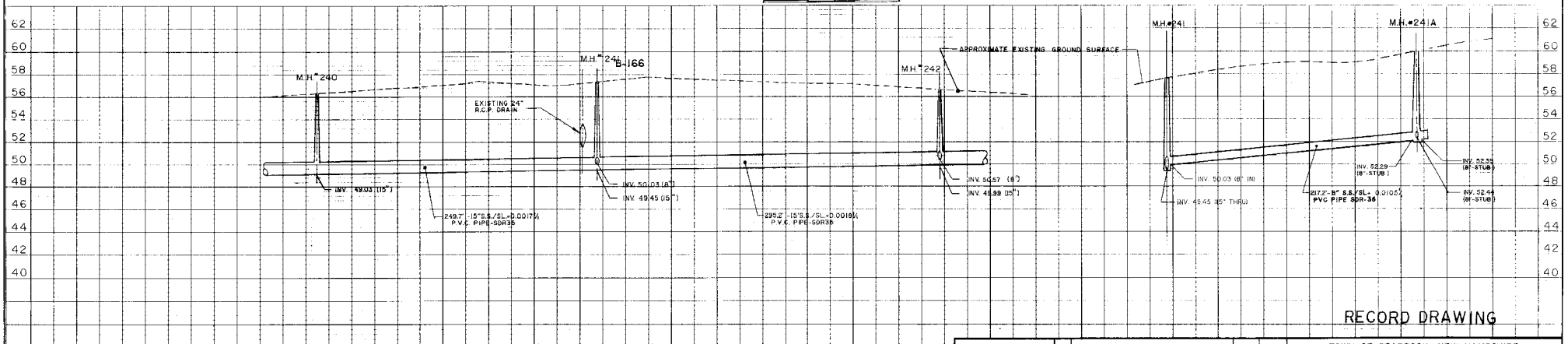
JOB NO. 1444/8704 CONTRACT NO. III SHEET 12 OF 37

H.M. SULLIVAN, INC. 808087

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING BAJ	12/94	WM	BAJ	BHJ	12/94
1	REVISED M.H. #241 TO 241A EM	10/93	RBJ	WM	BHJ	10/93
0	ISSUED FOR APPROVAL RMS	9/93	HEF	JOE	BHJ	9/93

PROJECT SUPERVISOR: Kenneth E. Sullivan
APPROVED: John A. Chiggino

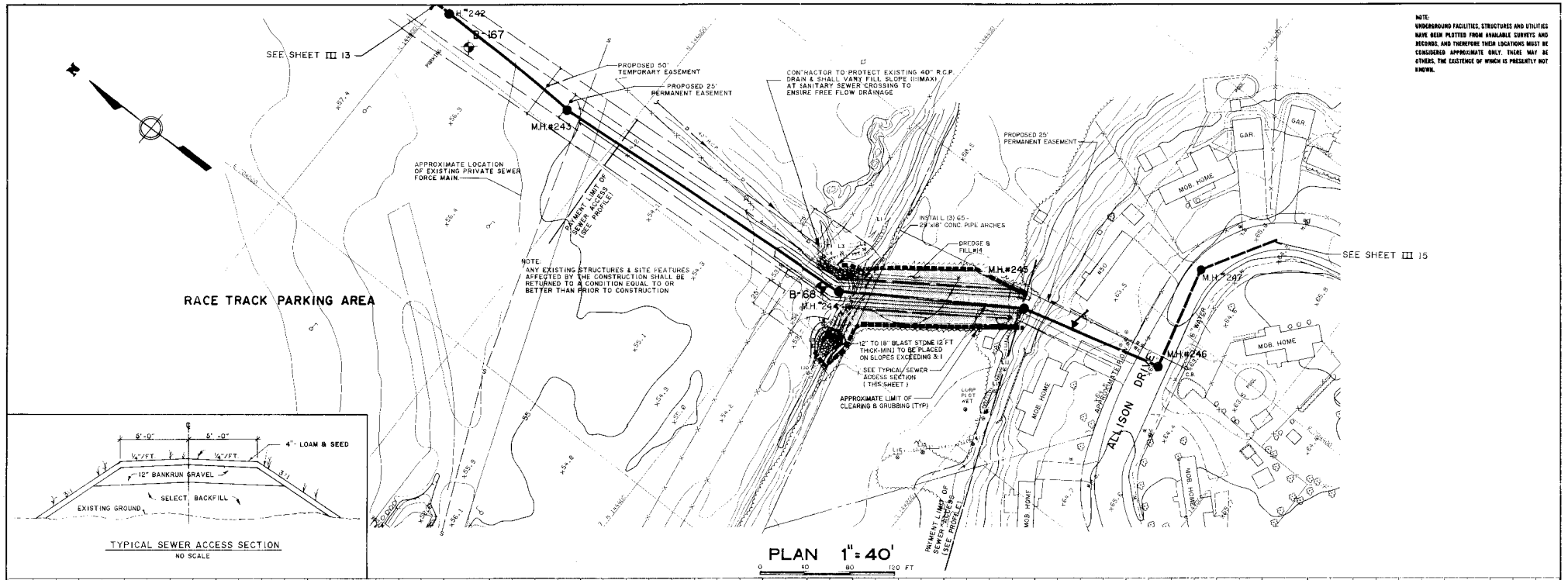
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

RACE TRACK
(MANHOLE NO. 240) - (MANHOLE NO. 242)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

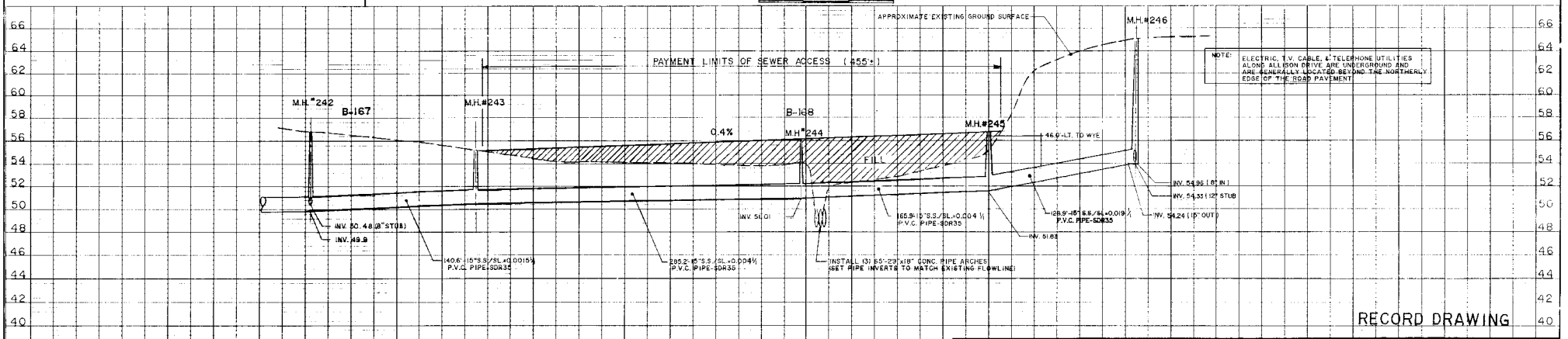
JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 13 OF 37

H.H. SULLIVAN, INC. 906367


SEE SHEET III 13
M.H. #242
B-167
M.H.#243
PROPOSED 50' TEMPORARY EASEMENT
PROPOSED 25' PERMANENT EASEMENT
CONTRACTOR TO PROTECT EXISTING 40" R.C.P. DRAIN & SHALL VARY FILL SLOPE (IIIMAX) AT SANITARY SEWER CROSSING TO ENSURE FREE FLOW DRAINAGE
APPROXIMATE LOCATION OF EXISTING PRIVATE SEWER FORCE MAIN
PAYMENT LIMIT OF SEWER ACCESS (SEE PROFILE)
NOTE: ANY EXISTING STRUCTURES & SITE FEATURES AFFECTED BY THE CONSTRUCTION SHALL BE RETURNED TO A CONDITION EQUAL TO OR BETTER THAN PRIOR TO CONSTRUCTION
RACE TRACK PARKING AREA
INSTALL (3) 65"-29"x18" CONC. PIPE ARCHES
DREDGE & FILL #4
M.H.#245
B-168
M.H.#244
12" TO 18" BLAST STONE 12 FT THICK-MIN.) TO BE PLACED ON SLOPES EXCEEDING 3:1
SEE TYPICAL SEWER ACCESS SECTION (THIS SHEET)
APPROXIMATE LIMIT OF CLEARING & GRUBBING (TYP)
PROPOSED 25' PERMANENT EASEMENT
SEE SHEET III 15
M.H. #247
M.H.#246
ALLISON DRIVE
MOB. HOME
GAR.
PAYMENT LIMIT OF SEWER ACCESS (SEE PROFILE)
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

PLAN 1" = 40'

TYPICAL SEWER ACCESS SECTION
NO SCALE



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	BAJ	12/94	WM	BAJ	BHJ	12/94
	RECORD DRAWING					
3	BAJ	12/94	WM	BAJ	BHJ	12/94
	REVISED DREDGE & FILL LOCATION					
2	AJM	8/90	RBJ		JAH	8/90
	ELEVATED ROADWAY					
1	WM	10/89	RBJ		JAH	10/89
	ISSUED FOR APPROVAL					
0	BHJ	9/89	MEF	JOE	BHJ	9/89

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

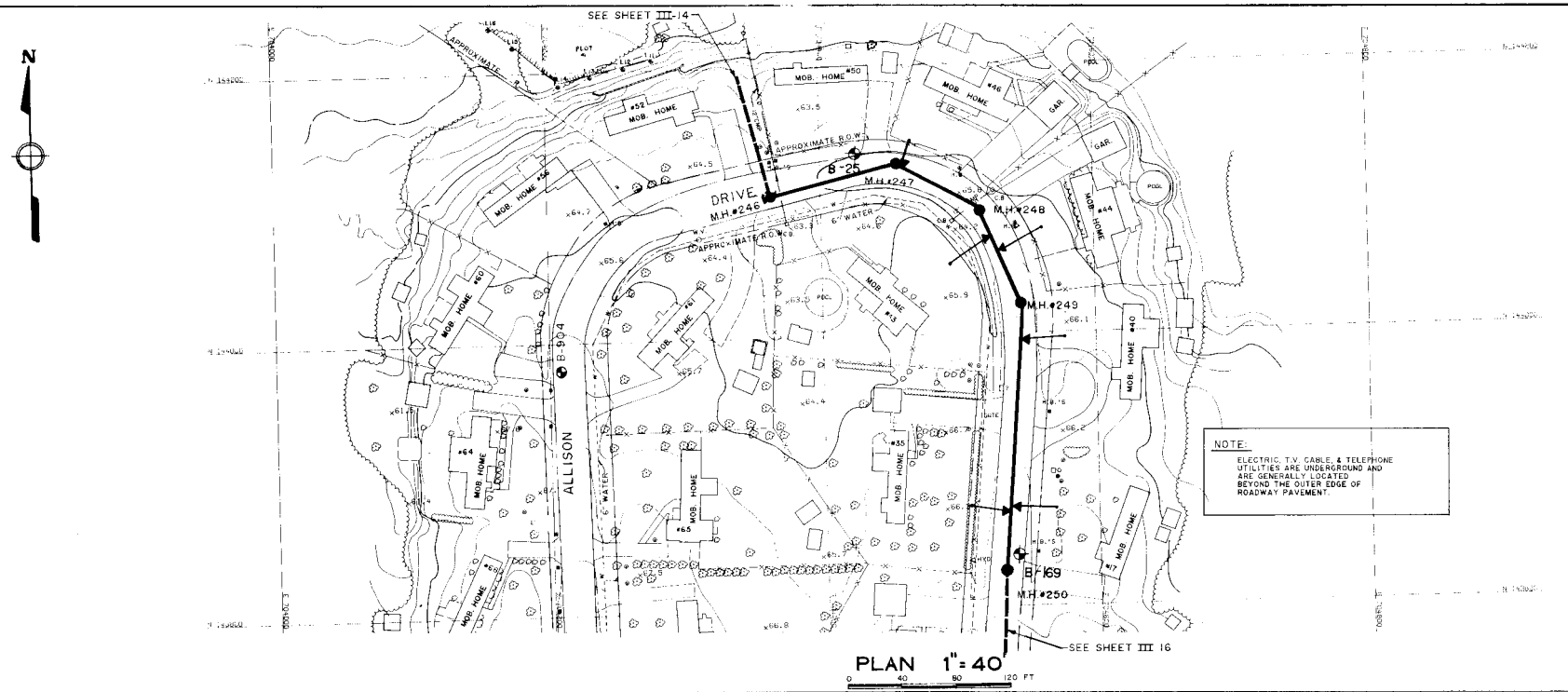
RACE TRACK TO ALLISON DRIVE

(MANHOLE NO.242) - (MANHOLE NO. 246)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

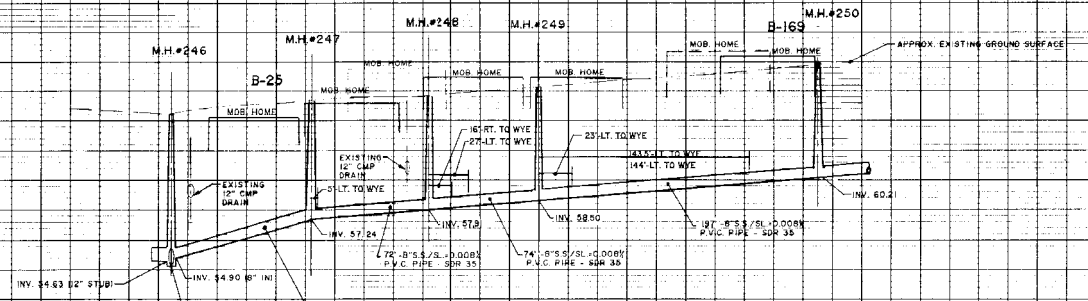
JOB NO. 1444/8704 CONTRACT NO. III SHEET 14 OF 37

© SULLIVAN INC. 886367



PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

2	RECORD DRAWING				BHJ	12/94
	BAJ	12/94	WM	BAJ		
1	GENERAL REVISIONS				BHJ	7/93
	WM	7/93	RBJ	WM		
0	ISSUED FOR APPROVAL				BHJ	7/93
	JM	5/93	WM	SNB		
SHEET NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SURVEYOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ALLISON DRIVE

(MANHOLE NO. 246) - (MANHOLE NO. 250)

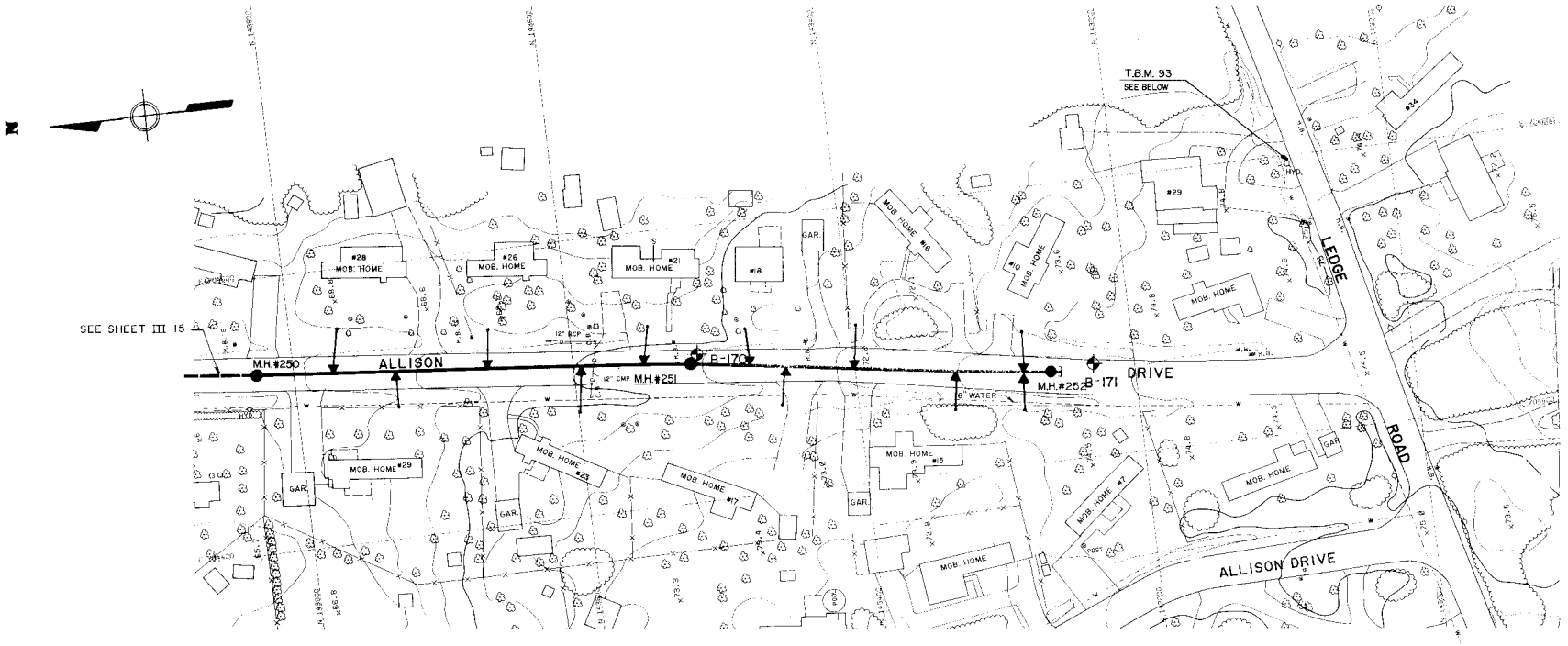
Jones & Beach / Stearns & Wheler

JOINT VENTURE – CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. III SHEET 15 OF 37

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

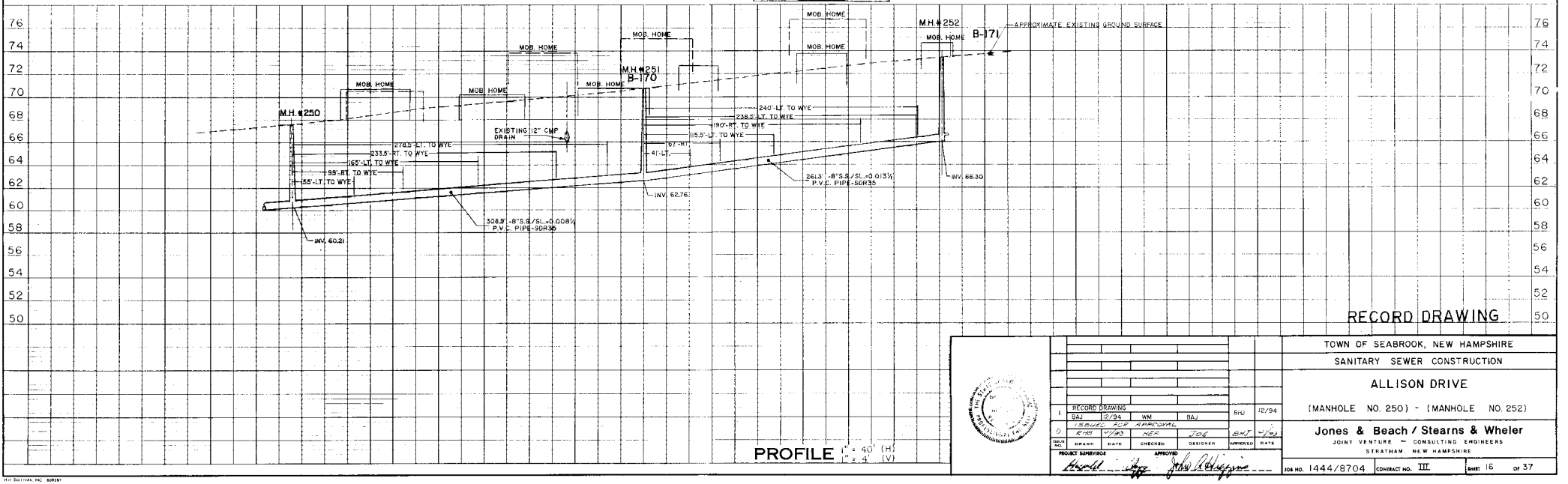


NOTE:
ELECTRIC, T.V. CABLE, & TELEPHONE UTILITIES ALONG ALLISON DRIVE ARE UNDERGROUND AND ARE GENERALLY LOCATED BEYOND THE EASTERLY EDGE OF THE ROAD PAVEMENT.

T.B.M. 93
SET X-CUT ON S. BULT DARLING HYD. ON N. SIDE LEDGE RD. APPROX. 650' E. OF "Y" INTERSECTION OF BLACK SNAKE RD. & LEDGE RD. IN FRONT OF HSE. NO. 29 ON LEDGE RD.

ELEV. 75.96

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

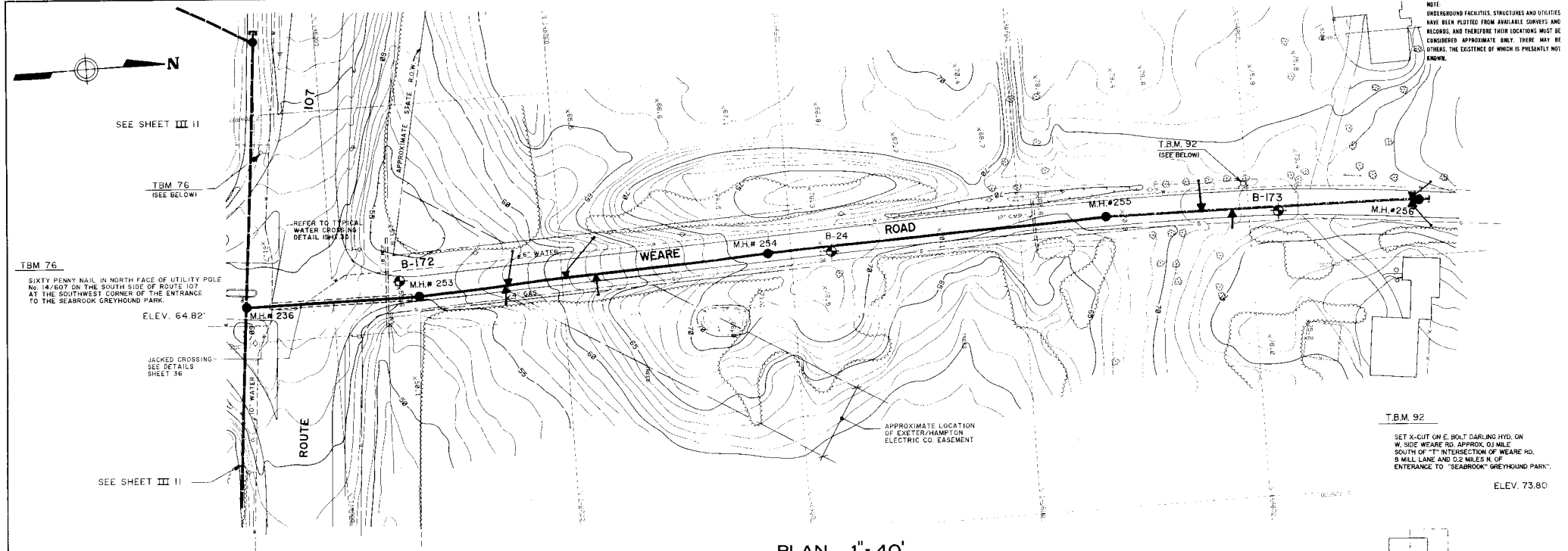
NO.						
1	RECORD DRAWING	BAJ	12/94	WM	BAJ	BHJ 12/94
0	ISSUED FOR APPROVAL	RHH 4/93		HER	JOE	BHT 4/93
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR: Harold [illegible]
APPROVED: John A. Higgins

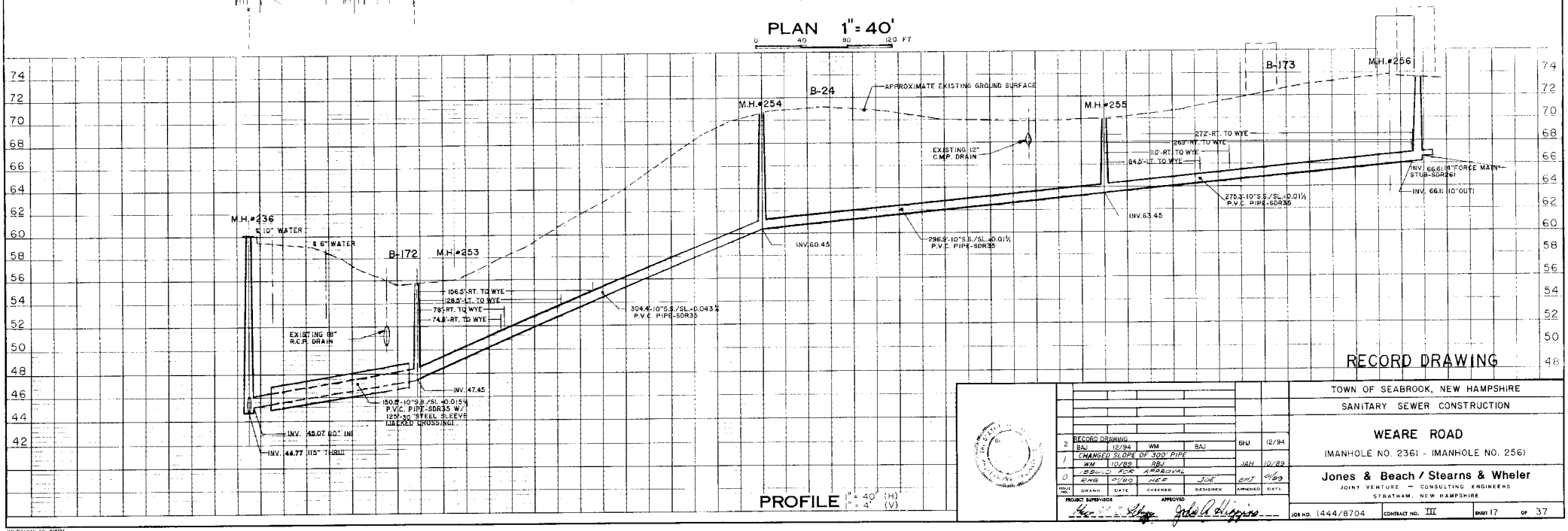
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
ALLISON DRIVE
(MANHOLE NO. 250) - (MANHOLE NO. 252)

Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 16 OF 37


N
SEE SHEET III 11
TBM 76
(SEE BELOW)
TBM 76
SIXTY PENNY NAIL IN NORTH FACE OF UTILITY POLE No. 14/607 ON THE SOUTH SIDE OF ROUTE 107 AT THE SOUTHWEST CORNER OF THE ENTRANCE TO THE SEABROOK GREYHOUND PARK.
ELEV. 64.82'
JACKED CROSSING SEE DETAILS SHEET 36
SEE SHEET III 11
107
ROUTE
APPROXIMATE STATE R.O.W.
REFER TO TYPICAL WATER CROSSING DETAIL (SHT 35)
B-172
M.H.# 253
M.H.# 236
WEARE ROAD
M.H.# 254
B-24
M.H.#255
B-173
M.H.#256
T.B.M. 92
(SEE BELOW)
APPROXIMATE LOCATION OF EXETER/HAMPTON ELECTRIC CO. EASEMENT
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
T.B.M. 92
SET X-CUT ON E. BOLT DARLING HYD. ON W. SIDE WEARE RD. APPROX. 0.1 MILE SOUTH OF "T" INTERSECTION OF WEARE RD. & MILL LANE AND 0.2 MILES N. OF ENTERANCE TO "SEABROOK" GREYHOUND PARK".
ELEV. 73.80

PLAN 1"= 40'
0 40 80 120 FT



PROFILE 1"= 40' (H) 1"= 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	BAJ	12/94	WM	BAJ	BHJ	12/94
	RECORD DRAWING					
1	WM	10/89	RBJ		JAH	10/89
	CHANGED SLOPE OF 300' PIPE					
0	KMB	9/89	HEF	JOE	ENT	9/89
	ISSUED FOR APPROVAL					

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WEARE ROAD

(MANHOLE NO. 236) - (MANHOLE NO. 256)

Jones & Beach / Stearns & Wheler

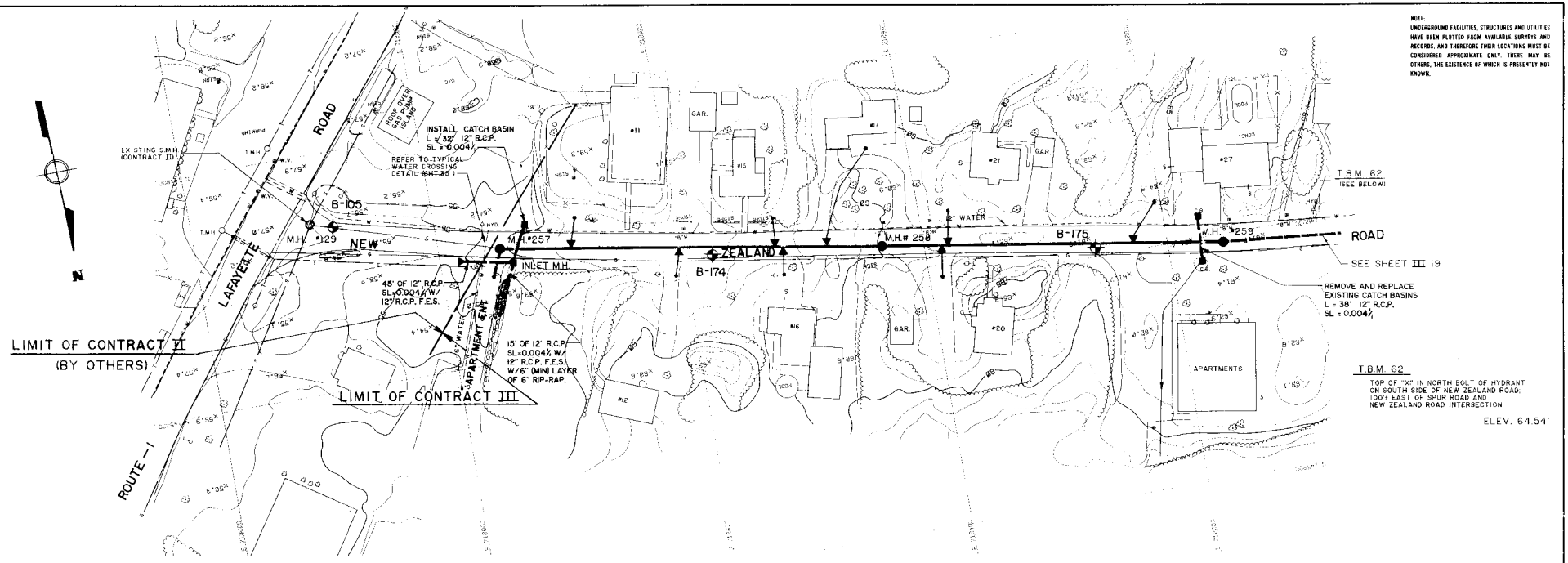
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

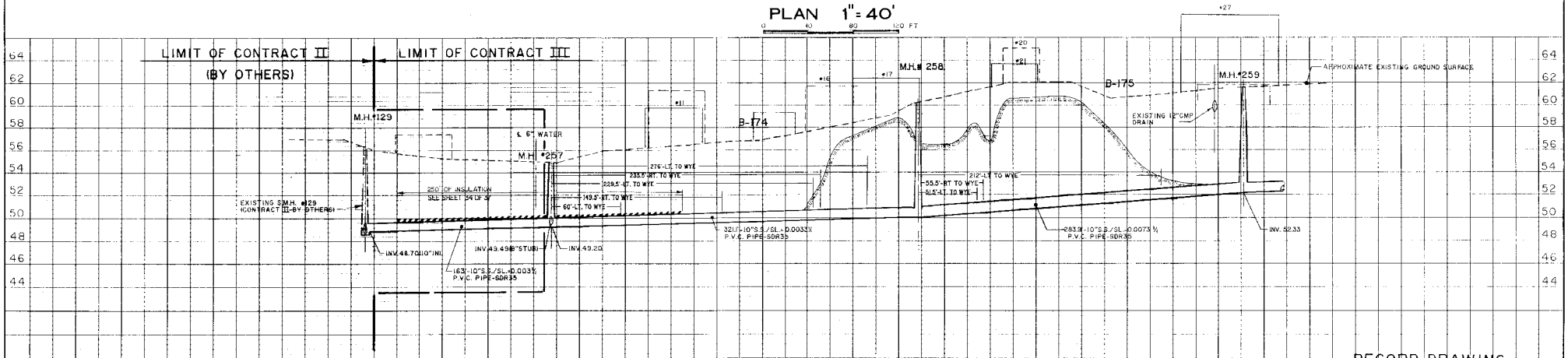
JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 17 OF 37

HH SULLIVAN INC 508367

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	BAJ	12/94	WM	BAJ	RBJ	12/94
2	ADDED DRAINAGE	BAJ	4/94	WM	BAJ	RBJ	4/94
1	ADDED PIPE INSULATION	WM	10/89	RBJ		JAH	10/89
0	ISSUED FOR APPROVAL	RMS	9/89	NER	JOE	BMT	9/89

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

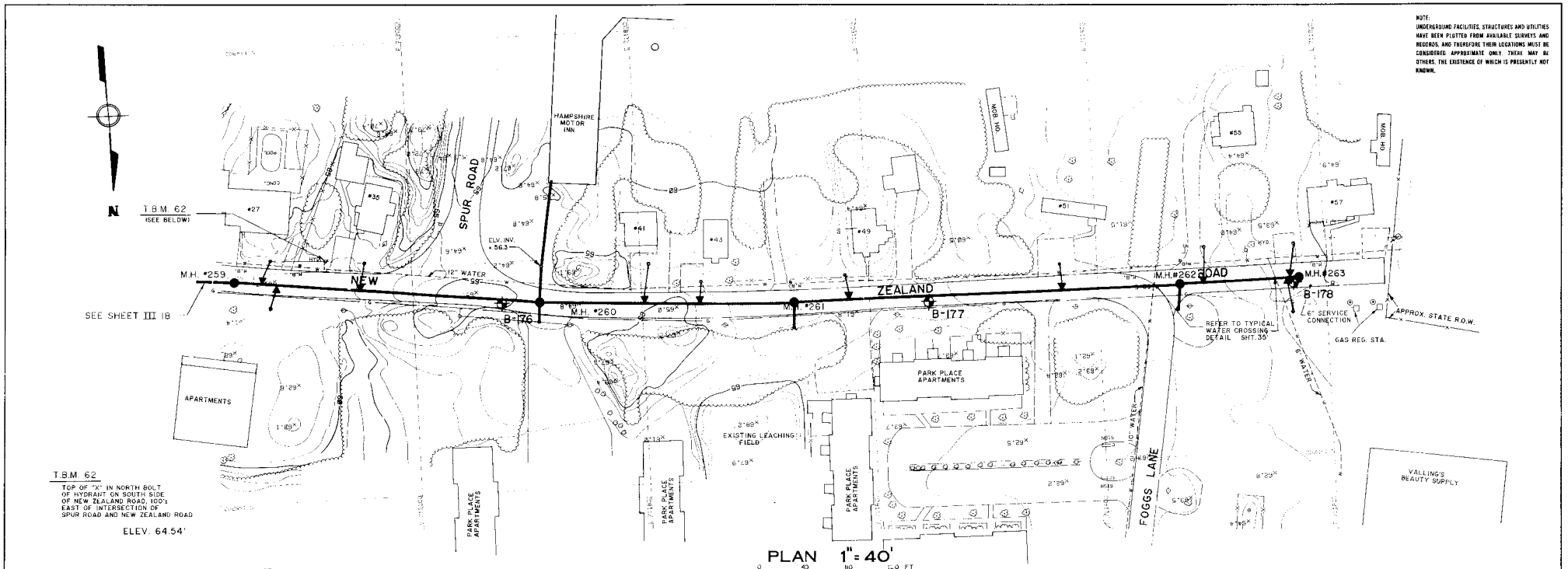
NEW ZEALAND ROAD

(MANHOLE NO. 129) - (MANHOLE NO. 259)

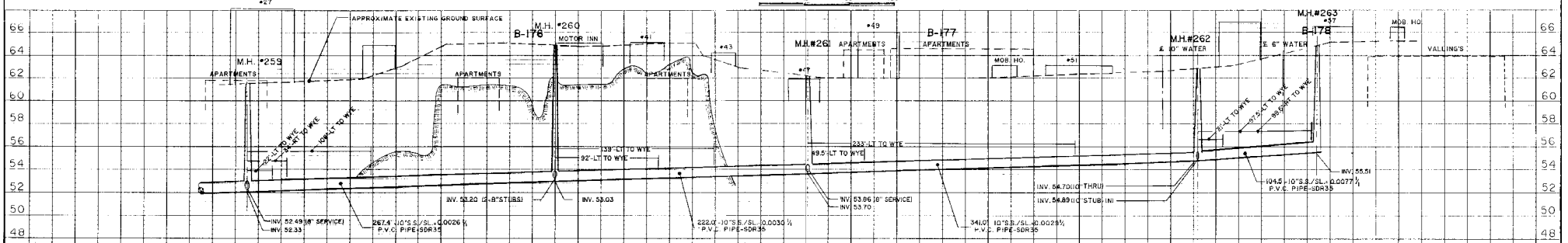
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 18 OF 37

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

NEW ZEALAND ROAD
(MANHOLE NO. 267) - (MANHOLE NO. 272)

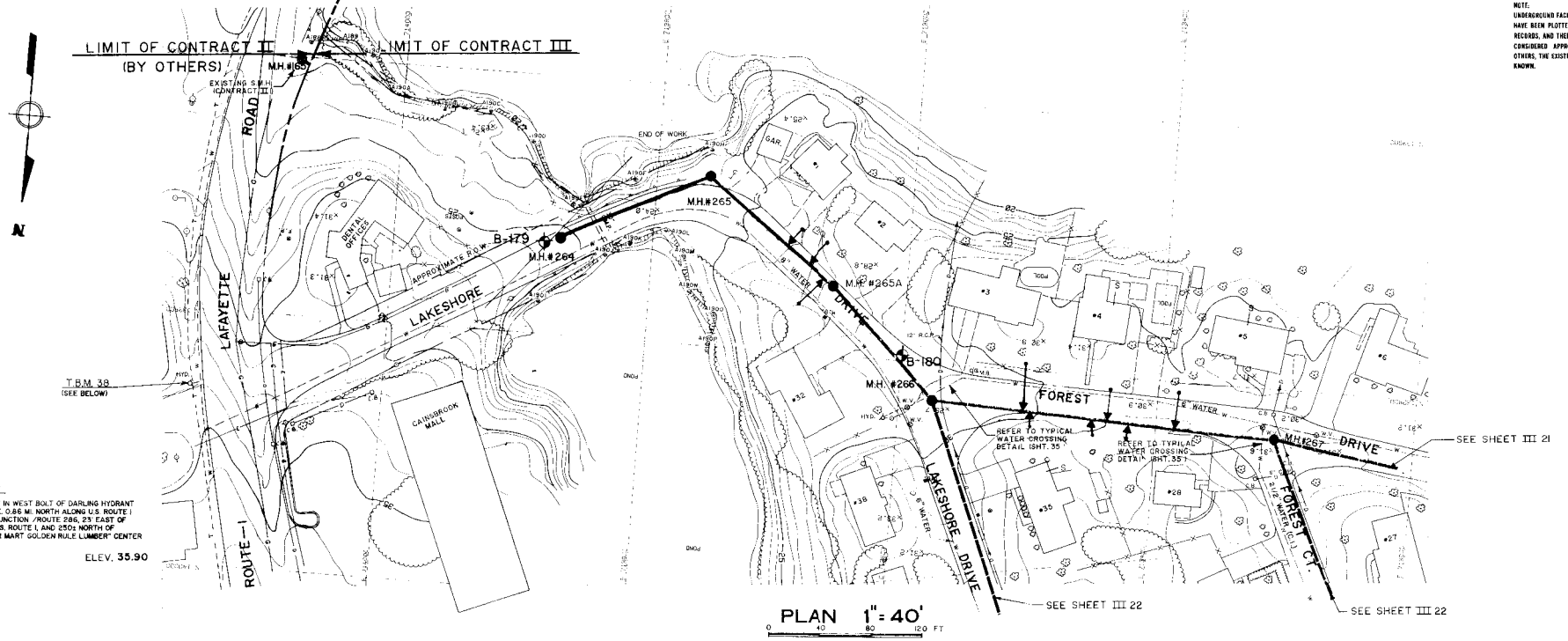
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

NO./E NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	BAJ	12/94	WM	BAJ	BHJ	12/94
	RECORD DRAWING					
0	BAJ	12/94	WM	BAJ	BHJ	12/94
	ISSUED FOR APPROVAL					
0	RHB	9/92	HEF	JOE	BHJ	9/92

PROJECT SUPERVISOR: [signature]
APPROVED: [signature]

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 19 OF 37

NOTE.
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

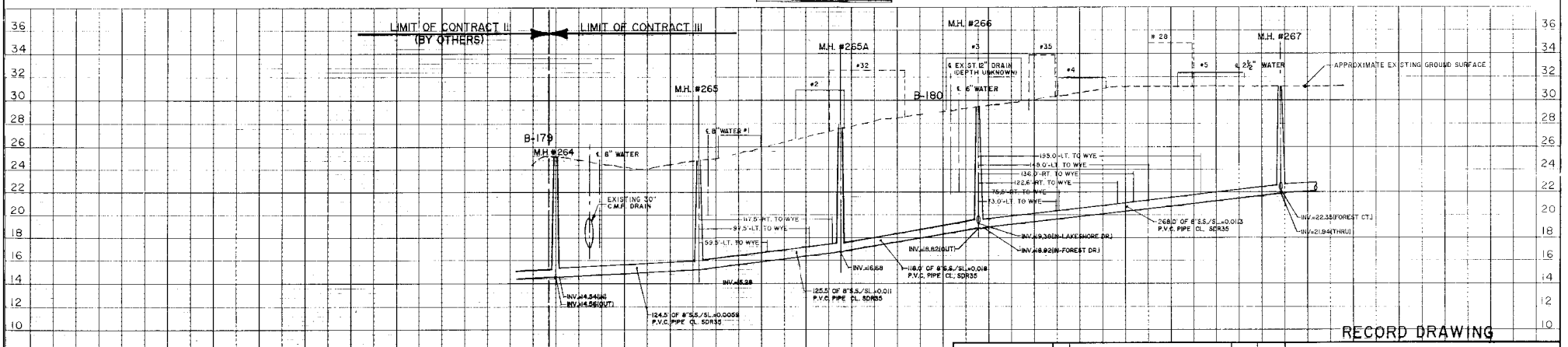


T.B.M. 38

"X" CUT IN WEST BOLT OF DARLING HYDRANT APPROX. 0.66 MI. NORTH ALONG U.S. ROUTE 1 FROM JUNCTION OF ROUTE 286, 23' EAST OF ℄ OF U.S. ROUTE 1, AND 250± NORTH OF "TIMBER MART GOLDEN RULE LUMBER" CENTER

ELEV. 35.90

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

LAKESHORE DRIVE & FOREST DRIVE

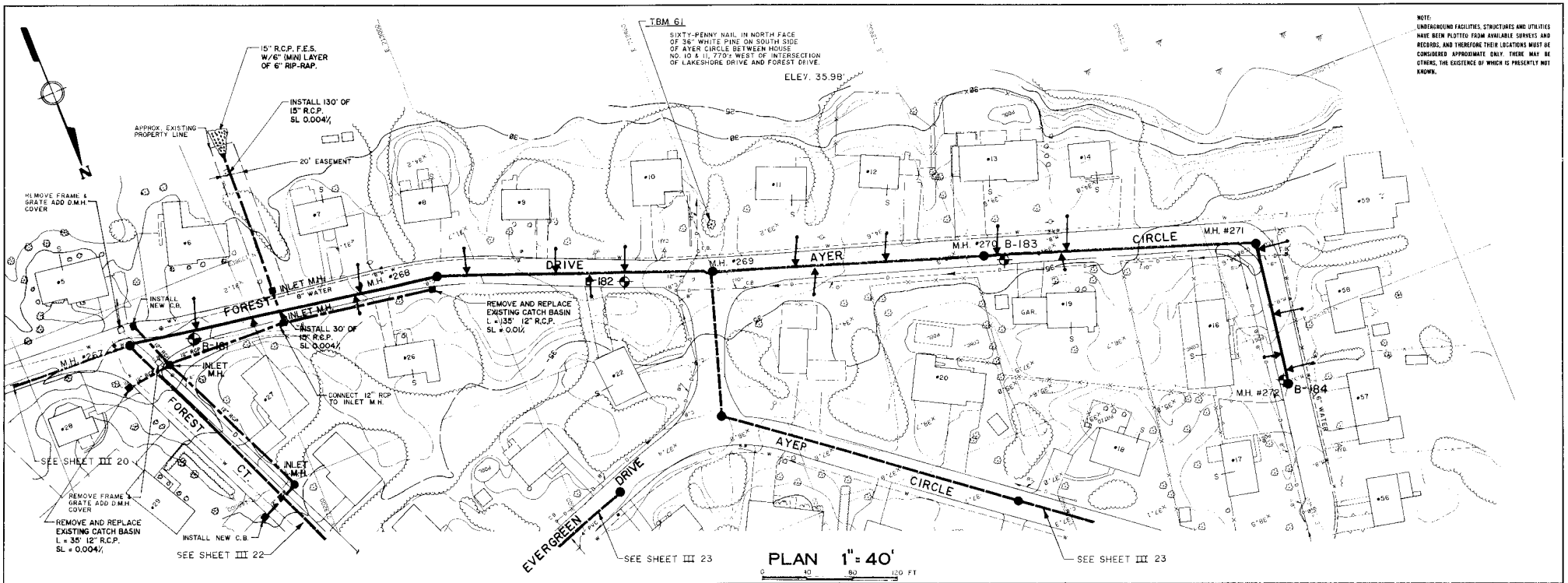
(MANHOLE NO. 165) - (MANHOLE NO. 267)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	BAJ	12/94	WM	BAJ	BHJ	12/94
2	RELOCATED S.M.H. #265	RDK	10/93	RBJ	BAJ	RBJ	10/93
1	RELOCATED S.M.H. #165	JOE	5/91	JAH	RBJ	JAH	5/91
0	ISSUED FOR APPROVAL	RHB	6/89	HEF	JOE	BHJ	6/89

PROJECT SUPERVISOR: _____ APPROVED: _____

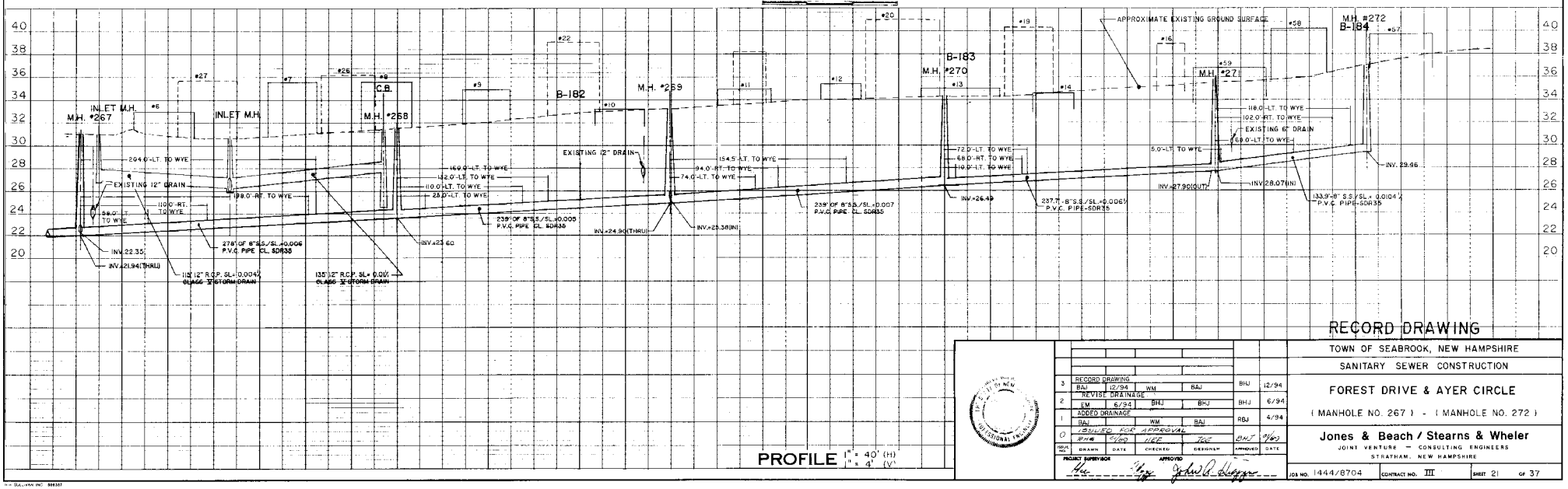
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 20 OF 37


TBM 61
SIXTY-PENNY NAIL IN NORTH FACE OF 36" WHITE PINE ON SOUTH SIDE OF AYER CIRCLE BETWEEN HOUSE NO. 10 & 11, 770'± WEST OF INTERSECTION OF LAKESHORE DRIVE AND FOREST DRIVE.
ELEV. 35.98'
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
15" R.C.P. F.E.S. W/6" (MIN) LAYER OF 6" RIP-RAP.
INSTALL 130' OF 15" R.C.P. SL 0.004'/'
APPROX. EXISTING PROPERTY LINE
20' EASEMENT
REMOVE FRAME & GRATE ADD D.M.H. COVER
INSTALL NEW C.B.
INLET M.H.
M.H. #268
8" WATER
FOREST DRIVE
INSTALL 30' OF 12" R.C.P. SL 0.004'/'
REMOVE AND REPLACE EXISTING CATCH BASIN L = 135' 12" R.C.P. SL = 0.01'/'
B-182
M.H. #269
AYER CIRCLE
M.H. #270
B-183
M.H. #271
B-184
M.H. #272
M.H. #267
B-181
CONNECT 12" RCP TO INLET M.H.
C.T.
REMOVE FRAME & GRATE ADD D.M.H. COVER
REMOVE AND REPLACE EXISTING CATCH BASIN L = 35' 12" R.C.P. SL = 0.004'/'
INSTALL NEW C.B.
SEE SHEET III 20
SEE SHEET III 22
SEE SHEET III 23
SEE SHEET III 23
EVERGREEN DRIVE
GAR.

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD DRAWING	BAJ	12/94	WM	BAJ	BHJ	12/94
2	REVISE DRAINAGE	EM	6/94	BHJ	BHJ	BHJ	6/94
1	ADDED DRAINAGE	BAJ		WM	BAJ	RBJ	4/94
0	PROJECT FOR APPROVAL	EMM	5/02	WEE	JGC	BHJ	9/60

PROJECT SUPERVISOR: APPROVED: John A. Beach

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOREST DRIVE & AYER CIRCLE

(MANHOLE NO. 267) - (MANHOLE NO. 272)

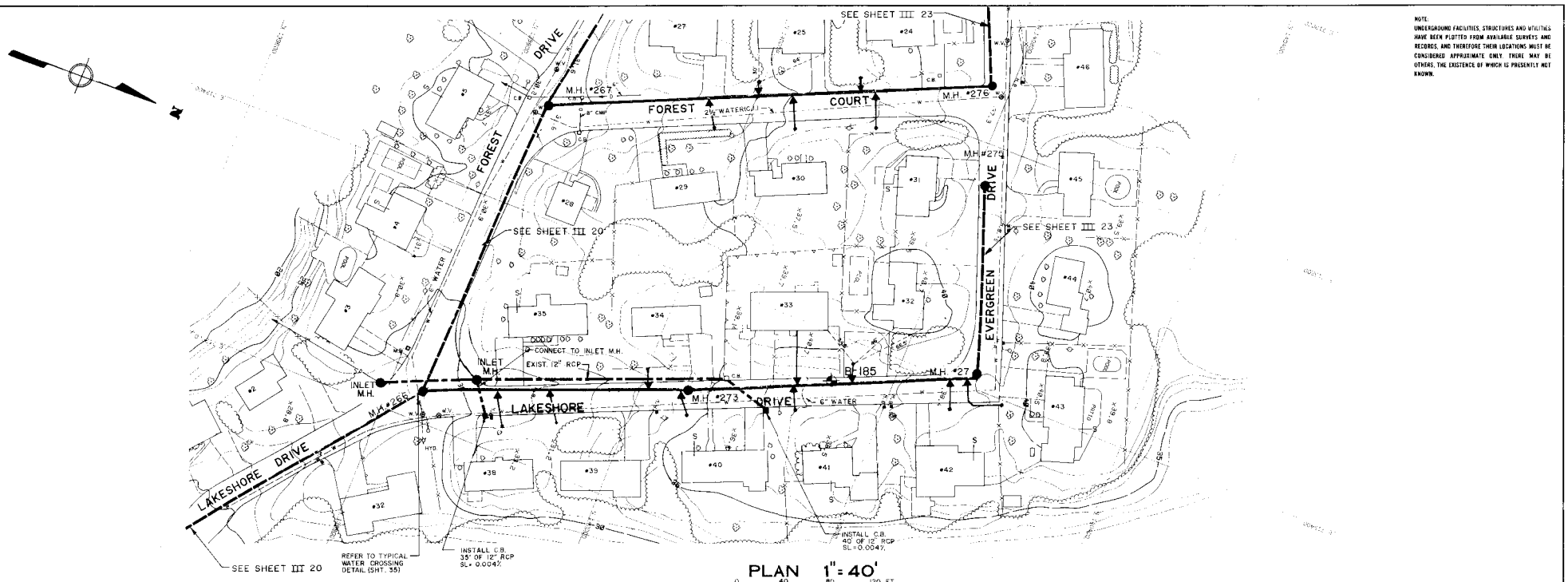
Jones & Beach / Stearns & Wheler

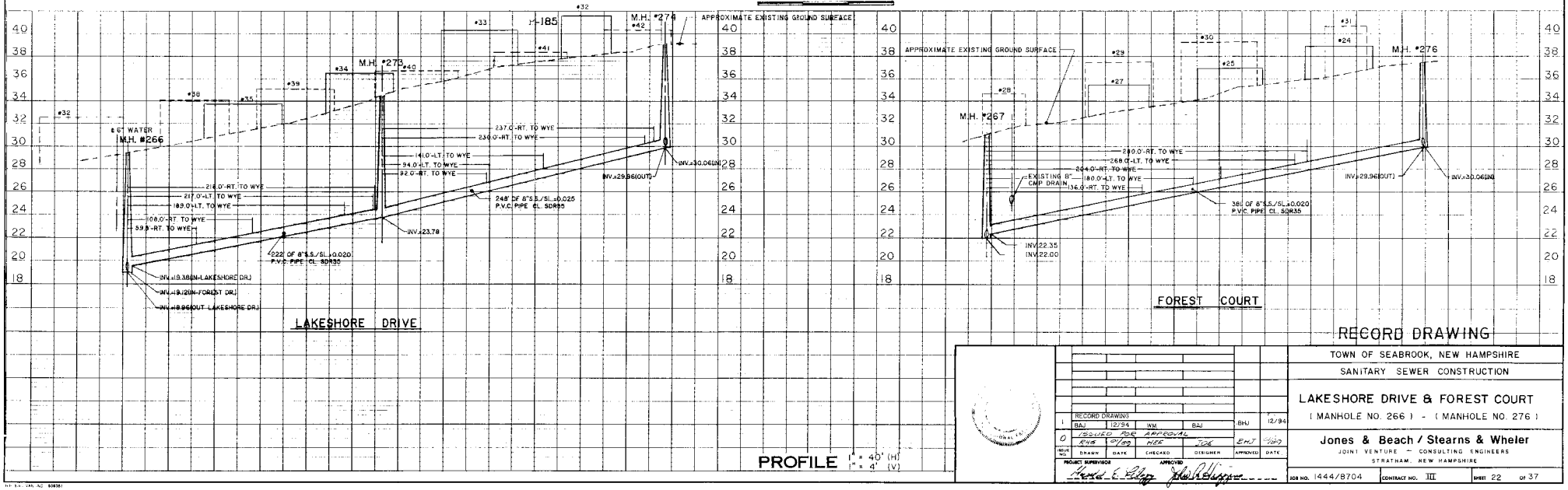
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. III SHEET 21 OF 37

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.





RECORD DRAWING

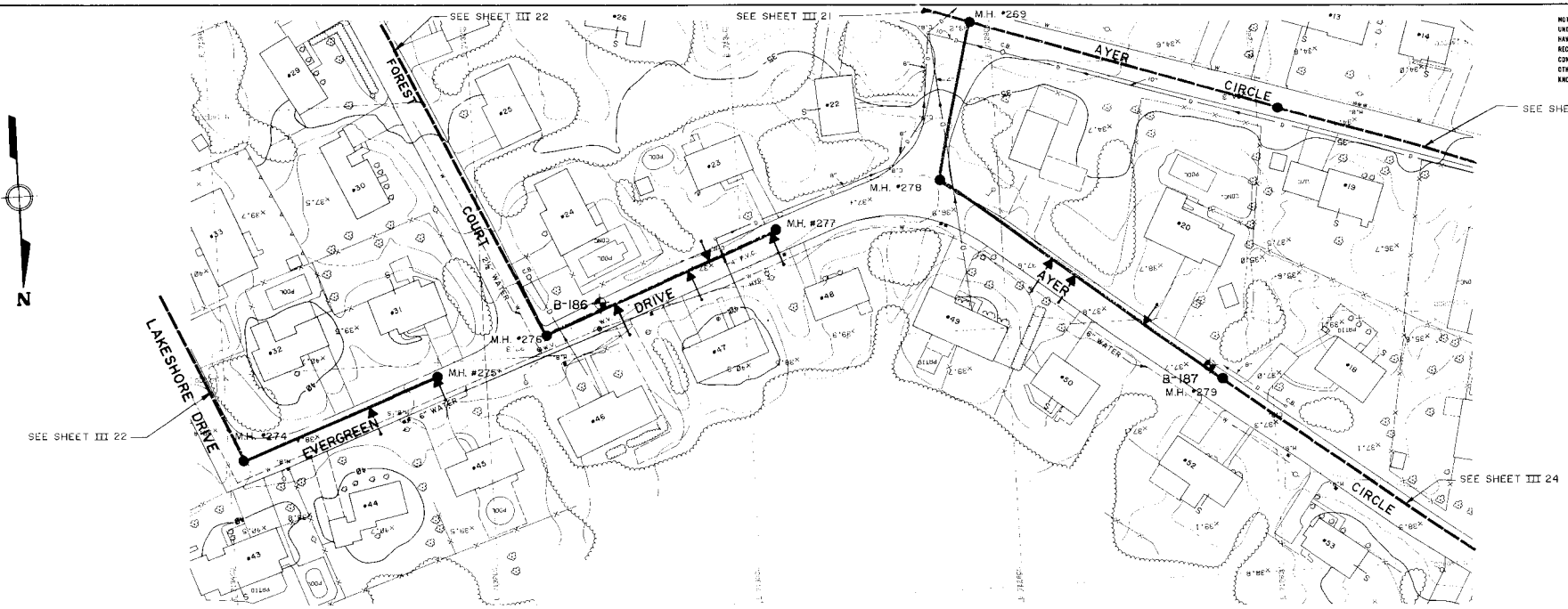
NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	RECORD DRAWING	BAJ	12/94	WM	BAJ	BHJ	12/94
0	ISSUED FOR APPROVAL	RHS	9/199	MEE	TCK	EMT	9/199

PROJECT SUPERVISOR: Frank E. Riley
APPROVED: Charles P. Clapp

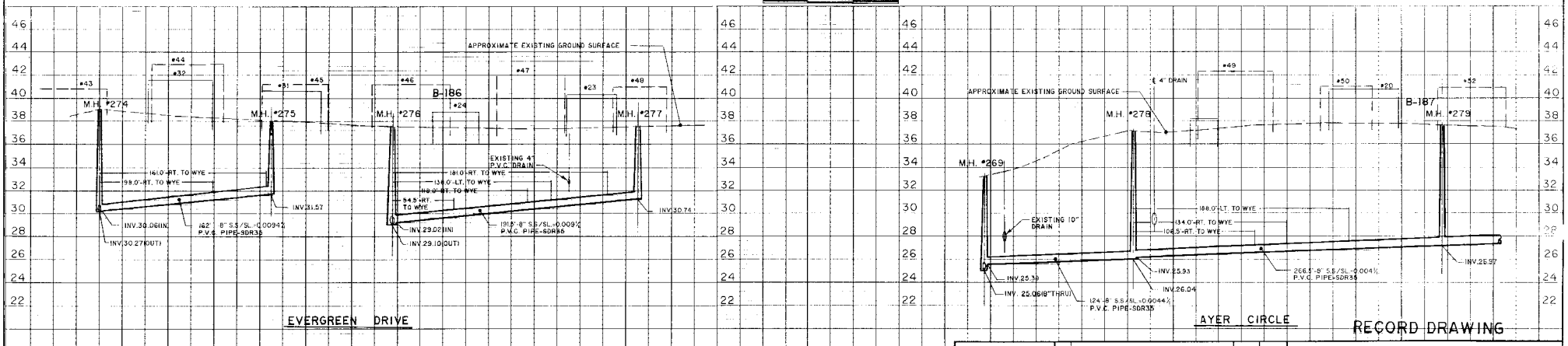
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
LAKESHORE DRIVE & FOREST COURT
(MANHOLE NO. 266) - (MANHOLE NO. 276)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 22 OF 37



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

EVERGREEN DRIVE & AYER CIRCLE

(MANHOLE NO. 269) - (MANHOLE NO.279)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	REVISED FOR RECORD DRAWING				SHJ	/94
0	ISSUED FOR APPROVAL				DHT	4/93
	RDK	1/94	BAJ	BAJ		
	RHG	6/93	REF	TOE		

PROJECT SUPERVISOR Harold E. Beach

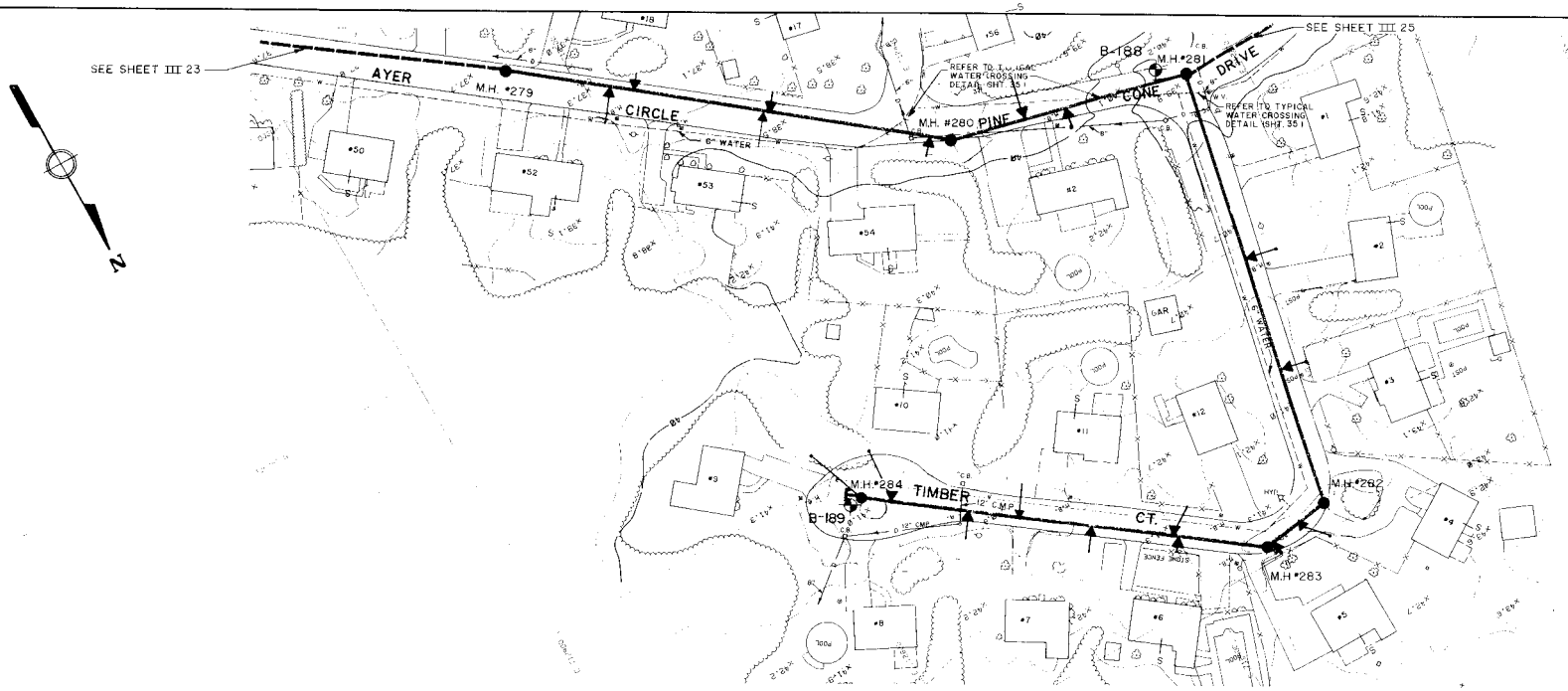
APPROVED John R. Stearns

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. III SHEET 23 OF 37



NOTE:
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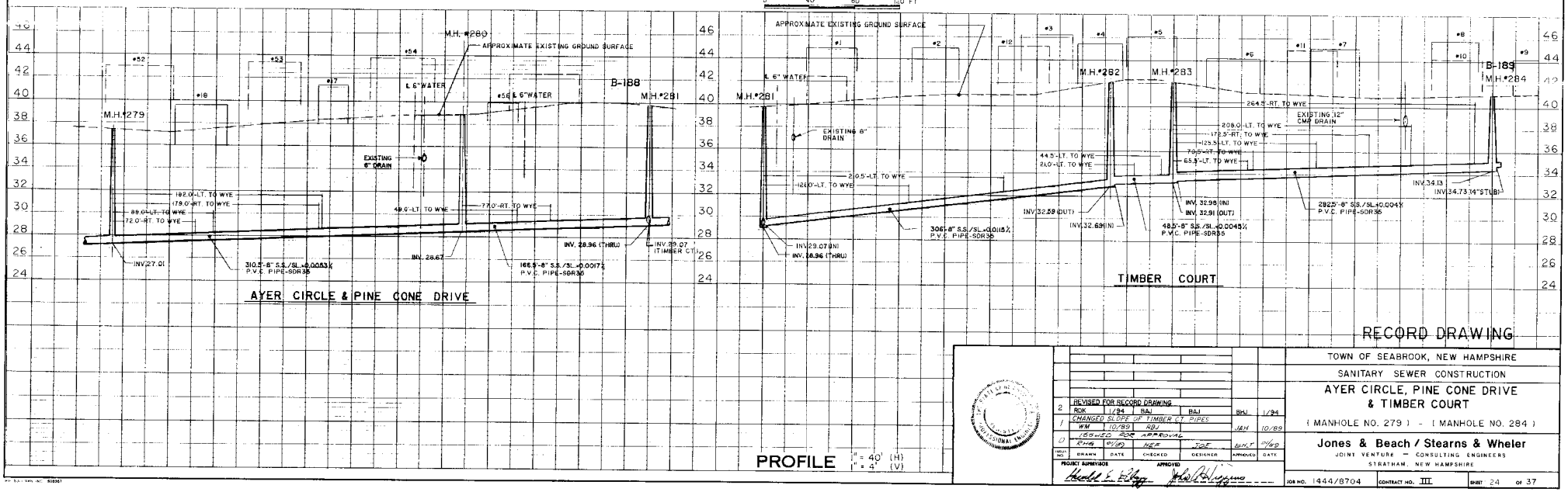
PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	REVISED FOR RECORD DRAWING	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2		ROK	1/94	BAJ	BAJ	BHJ	1/94
1	CHANGED SLOPE OF TIMBER CT. PIPES	WM	10/89	RBJ		JAH	10/89
0	ISSUED FOR APPROVAL	RMG	9/89	MEF	JDE	BHJ	9/89

PROJECT SUPERVISOR: Harold E. Hagg
APPROVED: John A. Higgins

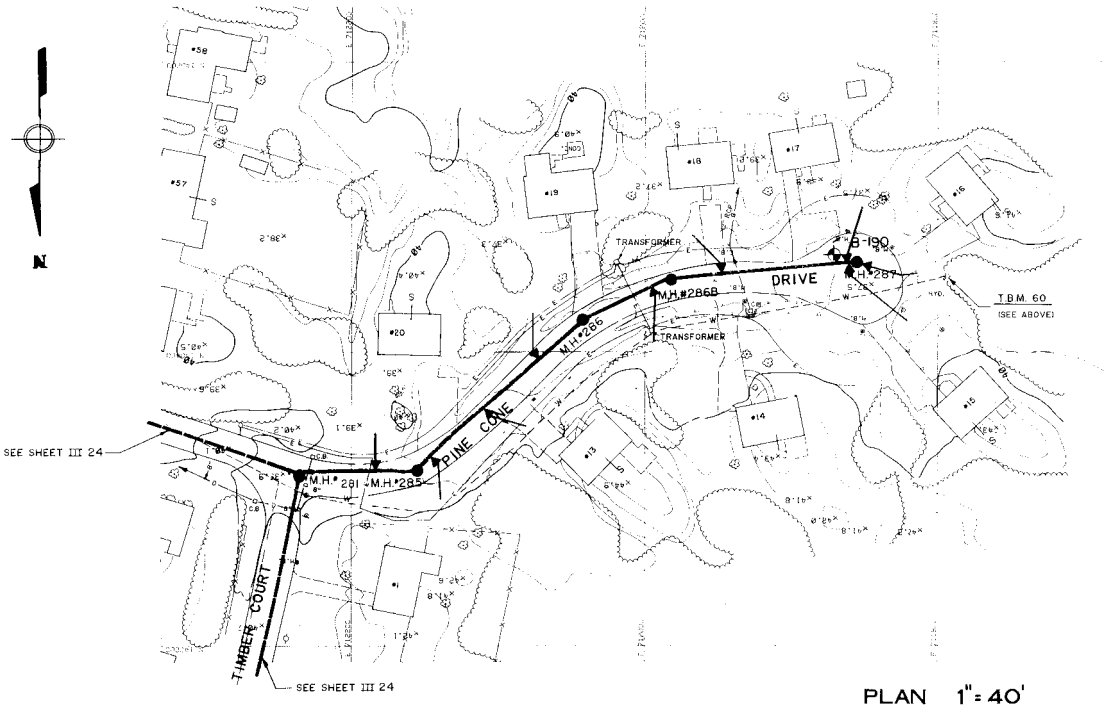
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
AYER CIRCLE, PINE CONE DRIVE & TIMBER COURT
(MANHOLE NO. 279) - (MANHOLE NO. 284)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

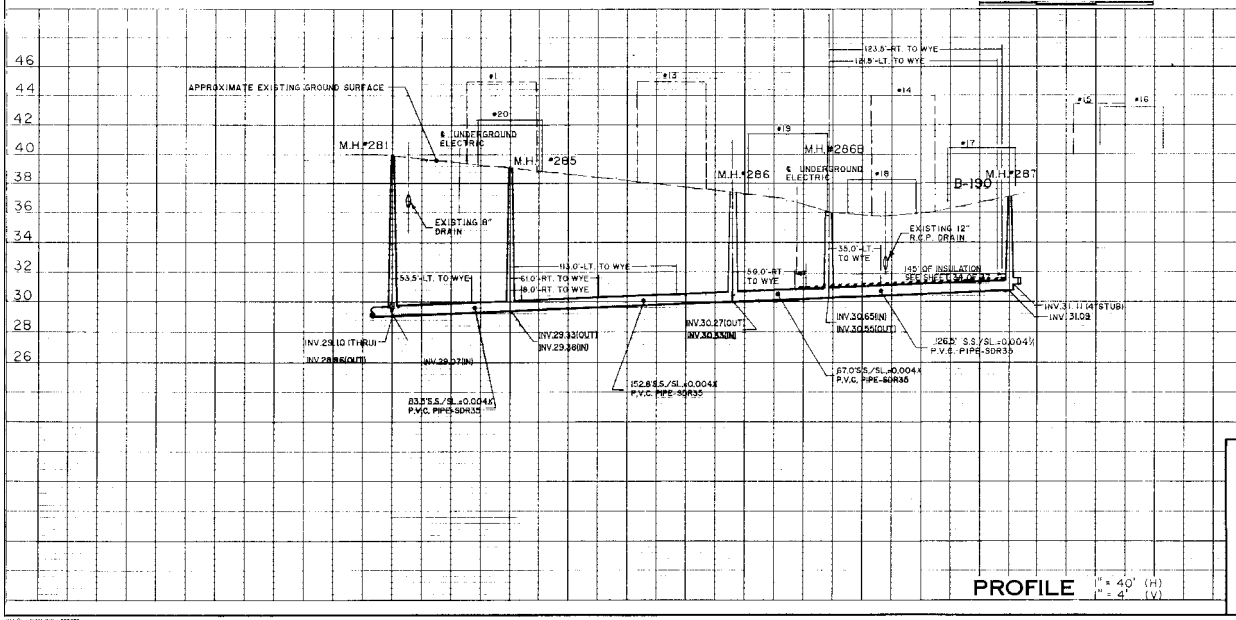
JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 24 OF 37

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

T.B.M. 60
TOP OF "X" CUT IN SOUTH BOLT OF HYDRANT LOCATED AT WEST END OF CUL-DE-SAC ON PINE CONE DRIVE, 480± WEST OF INTERSECTION OF TIMBER COURT AND PINE CONE DRIVE
ELEV. 40.12'



PLAN 1"= 40'
0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING BAJ	12/94	WM	BAJ	BAJ	12/94
1	ADDED PIPE INSULATION WM	10/99	RBJ		JAH	10/99
0	ISSUED FOR APPROVAL BAJ	9/02	HEF	JJE	BAJ	9/02

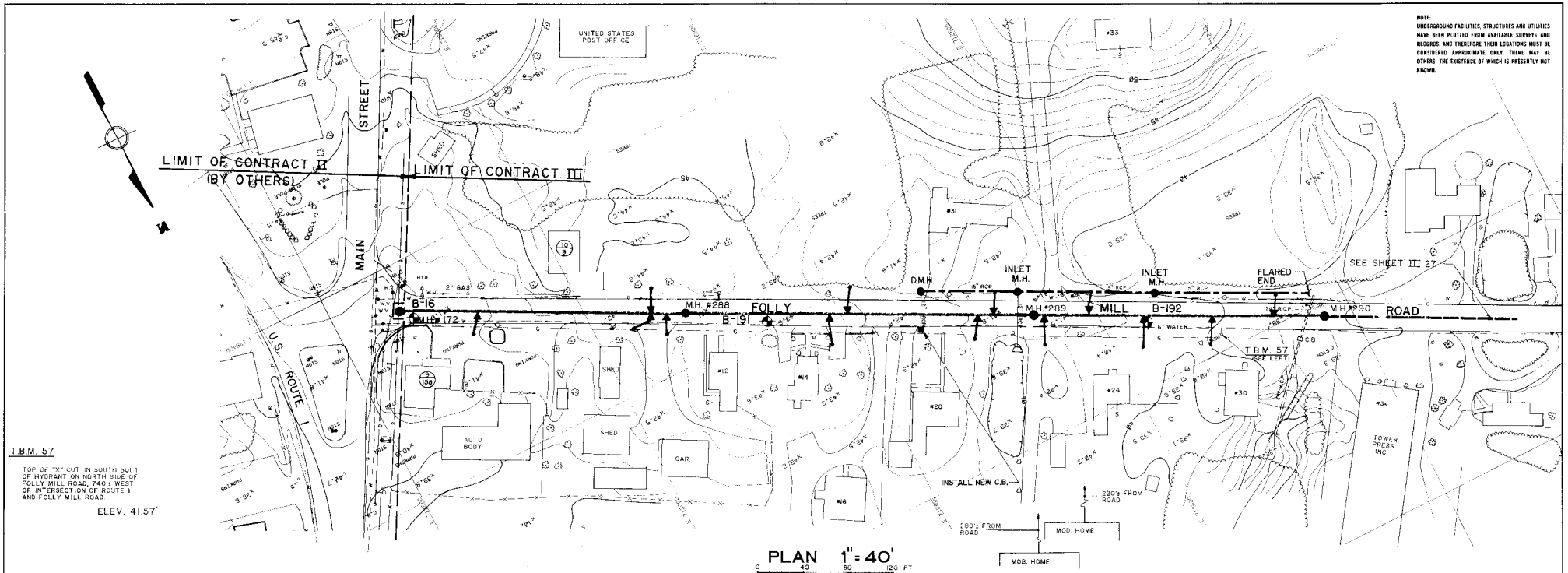
PROJECT SUPERVISOR Harold E. Fay APPROVED John G. Higgins

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

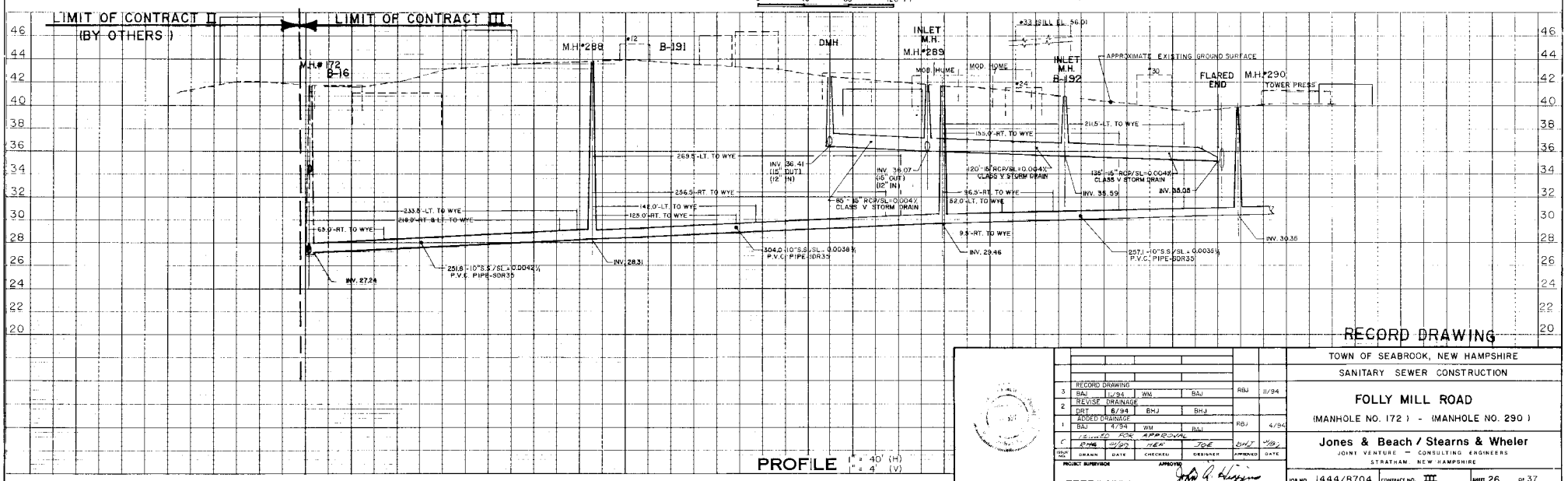
PINE CONE DRIVE
(MANHOLE NO. 281) - (MANHOLE NO. 287)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. III SHEET 25 OF 37



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

3	RECORD DRAWING	BAJ	1/95	WN	BAJ	RBJ	11/94
2	REVISE DRAINAGE	DRT	6/94	BHJ	BHJ		
1	ADDED DRAINAGE	BAJ	4/94	WN	BAJ	RBJ	4/94
0	ISSUED FOR APPROVAL	DMS	4/93	HEA	JOE	BHJ	1/93
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOLLY MILL ROAD

(MANHOLE NO. 172) - (MANHOLE NO. 290)

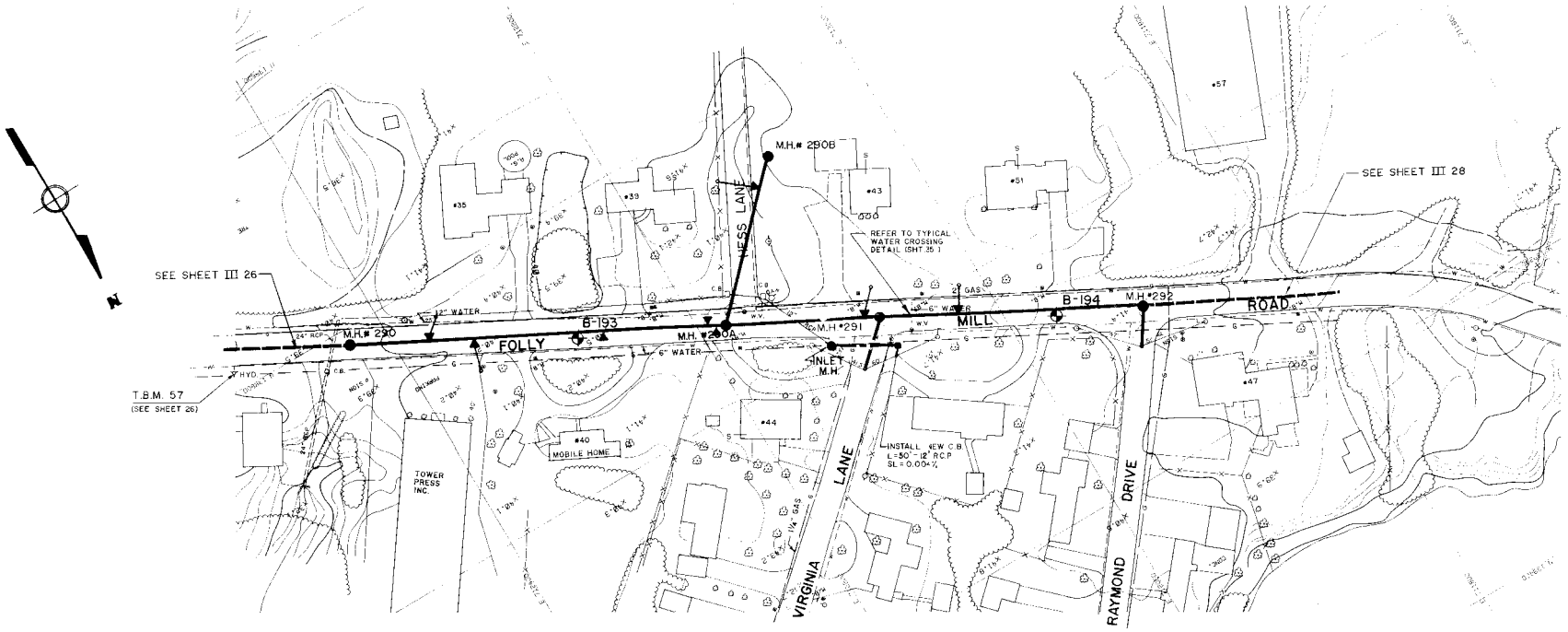
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

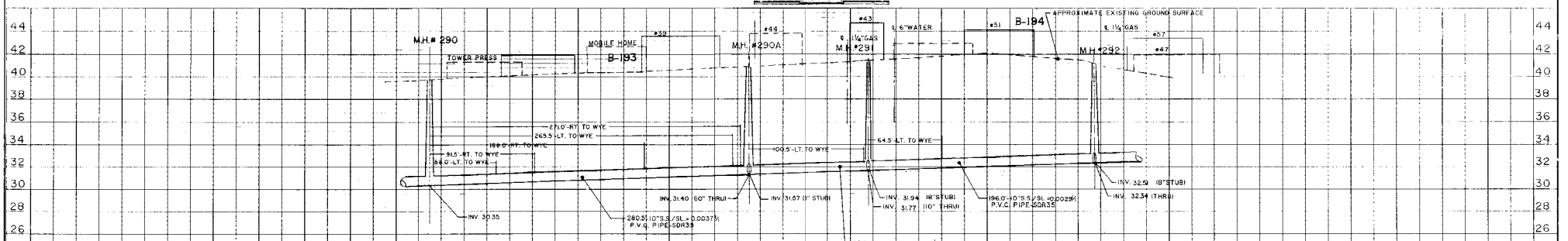
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 26 OF 37

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1"=40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
4	RECORD DRAWING	BAJ	11/94	WM	BAJ	RBJ	11/94
3	REVISE DRAINAGE	DRT	6/94	BHJ	BHJ	BHJ	6/94
2	ADDED DRAINAGE	BAJ	4/94	WM	BAJ	RBJ	4/94
1	ADDED HESS LANE	RDK	1/94	RBJ	WM	RBJ	1/94
0	ISSUED FOR APPROVAL	RHS	9/93	HEF	JCE	BHJ	1/94

PROJECT SUPERVISOR: Hee
APPROVED: John R. Higgins

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
FOLLY MILL ROAD
(MANHOLE NO. 290) - (MANHOLE NO. 292)

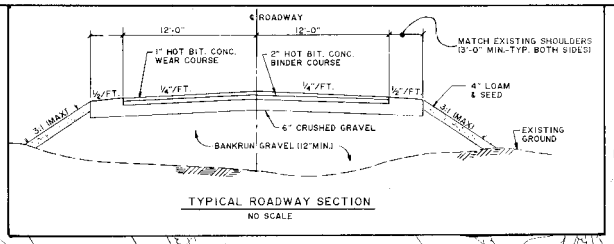
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 27 OF 37

T.B.M. 58

SPIKE IN NORTHWEST FACE OF UTILITY POLE (17/375) LOCATED 0.3 MI.± FROM ROUTE-1 ALONG FOLLY MILL ROAD AND ACROSS FROM THE SALISBURY, MASS. WATER SUPPLY BUILDING

ELEV. 35.87'



TYPICAL ROADWAY SECTION

NO SCALE

T.B.M. 59

TOP OF "X" CUT IN SOUTHEAST BOLT ON HYDRANT LOCATED AT NORTH CORNER OF FOLLY MILL RD. & DIANE ST., 0.45 MI.± ALONG FOLLY MILL RD. FROM THE ROUTE 1 INTERSECTION.

ELEV. 47.02

NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

EXTEND EXISTING 40'-48" DIA. R.C.P. CULVERT TO 60'OVERALL @SL=0.005% W/48" R.C.P. PIPE & FLARED END SECTIONS.

DREDGE & FILL #5

SALISBURY WATER

SAW CUT PAVEMENT

APPROXIMATE R.O.W.

FOLLY MILL ROAD

B-17

B-195

M.H.#294

M.H.#295

M.H.#295A

M.H.#296

M.H.#293

M.H.#292

2" GAS

6" WATER

8" WATER

12" WATER

T.B.M. 58 (SEE ABOVE, LEFT)

T.B.M. 59 (SEE ABOVE)

REFER TO TYPICAL WATER CROSSING DETAIL SHT. 35

SEE SHEET III 29

SEE SHEET III 27

PAYMENT LIMITS OF PROPOSED ROADWAY RECONSTRUCTION (425±)

(SEE TYPICAL ROADWAY SECTION THIS SHEET)

SECORD POND

EXCAVATION WITHIN DREDGE AND FILL AREAS SHALL OCCUR DURING LOW FLOW PERIODS. ONLY BACKFILLING WITHIN ANY EROSION PRONE CHANNEL SEGMENT OF THE DISTURBED AREA, SHALL RECEIVE A 6" (MIN.) LAYER OF RIP-RAP.

RAYMOND DRIVE

BOYD'S WAY

DIANE STREET

PLAN 1" = 40'

0 40 80 120 FT

PAYMENT LIMITS OF PROPOSED ROADWAY RECONSTRUCTION (425±)

450' OF INSULATION SEE SHEET 34 OF 37

℄ 1¼" GAS

L.V.C. = 200'

B-17

B-195

M.H.#292

M.H.#293

M.H.#294

M.H.#295

M.H.#295A

M.H.#296

6" WATER

APPROXIMATE EXISTING GROUND SURFACE

0.5%

1.5%

FILL

97.0'-RT. TO WYE

91.0'-LT. TO WYE

205.0'-RT. TO WYE

195.0'-LT. TO WYE

109.5'-RT. TO WYE

67.0'-LT. TO WYE

29.5'-RT. TO WYE

35.5'-LT. TO WYE

INV. 33.94

INV. 33.50

INV. 32.34 (10" THRU)

INV. 32.51 (8" STUB)

INV. 34.72

INV. 35.51 (10" THRU)

INV. 35.7 (10" STUB)

INV. 35.60 (10" THRU)

INV. 36.2 ±14" F.M. STUB-P.V.C. PIPE - DR35)

180.7'-10" S.S./SL.= 0.0055 ½ P.V.C. PIPE-SDR35

122.5'-10" S.S./SL.=0.0036 ½ P.V.C. PIPE-SDR35

257.2'-10" S.S./SL.= 0.003 ½ P.V.C. PIPE-SDR35

272.5'-10" S.S./S.L.= 0.0029 ½ P.V.C. PIPE - SDR 35

60.9'-10" S.S./SL.=0.0016% P.V.C. PIPE SDR35

EXISTING 48" R.C.P. CULVERT

40' OF INSULATION SEE SHEET 36 OF 37

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

4	RECORD DRAWING				RBJ	11/94
	BAJ	11/94	WM	BAJ		
3	ADDED BOYD'S WAY				RBJ	1/94
	RBK	1/94	WM	WM		
2	REVISED CULVERT				JAH	6/90
	WM	6/90	RBJ			
1	ADDED PIPE INSULATION & REVISED MH#295				JAH	10/89
	WM	10/89	RBJ			
0	ISSUED FOR APPROVAL				BMT	7/89
	RHB	7/89	HEP	JDE		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SURVEYOR: Harold C. Boyd — APPROVED: John A. Chiappa

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOLLY MILL ROAD

(MANHOLE NO. 292) - (MANHOLE NO. 295)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 28 OF 37

NOTE:
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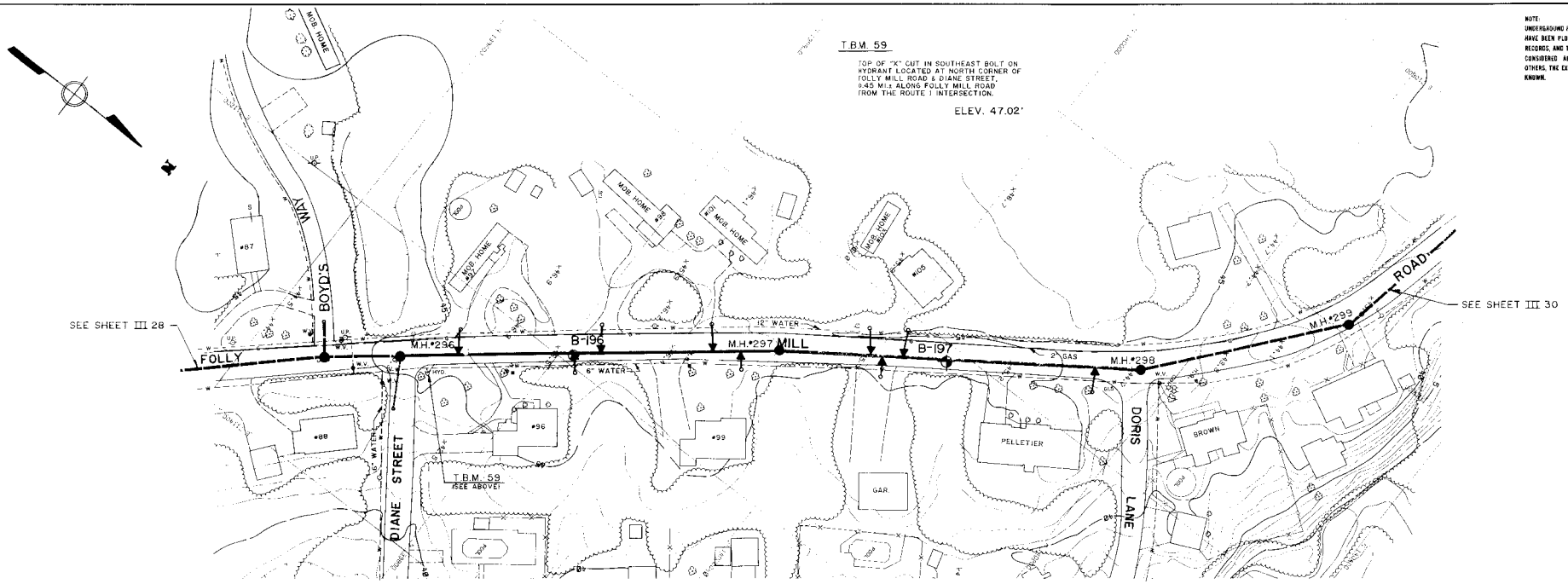
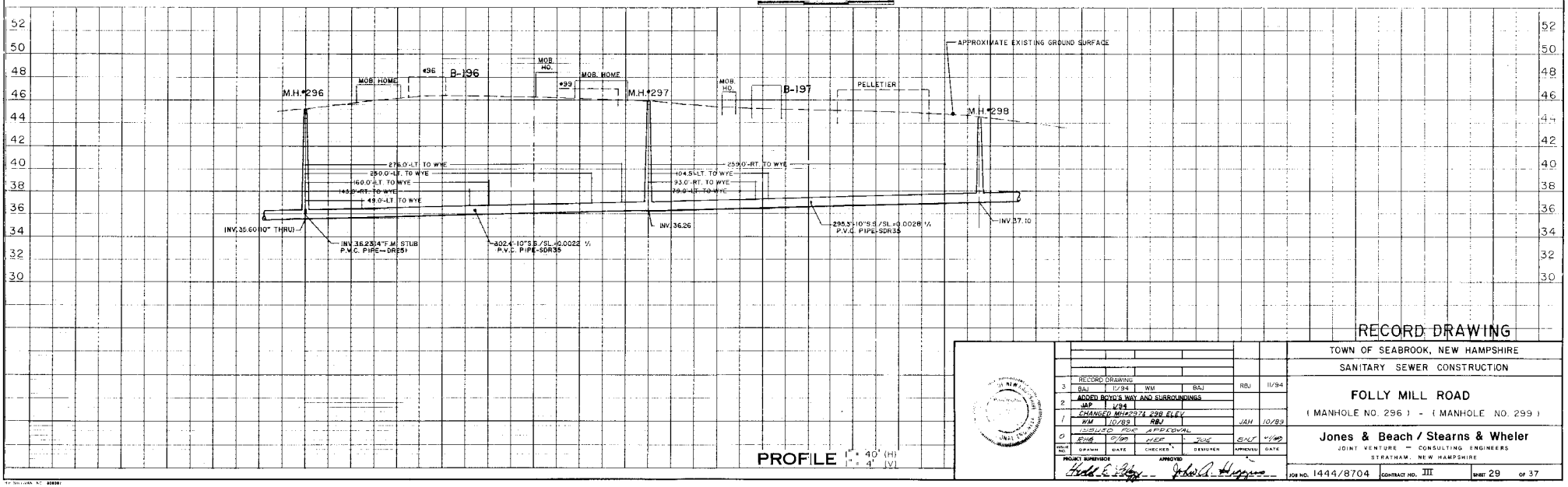
T.B.M. 59

TOP OF "X" CUT IN SOUTHEAST BOLT ON HYDRANT LOCATED AT NORTH CORNER OF FOLLY MILL ROAD & DIANE STREET, 0.45 MI.± ALONG FOLLY MILL ROAD FROM THE ROUTE 1 INTERSECTION.

ELEV. 47.02'



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOLLY MILL ROAD

(MANHOLE NO. 296) - (MANHOLE NO. 299)

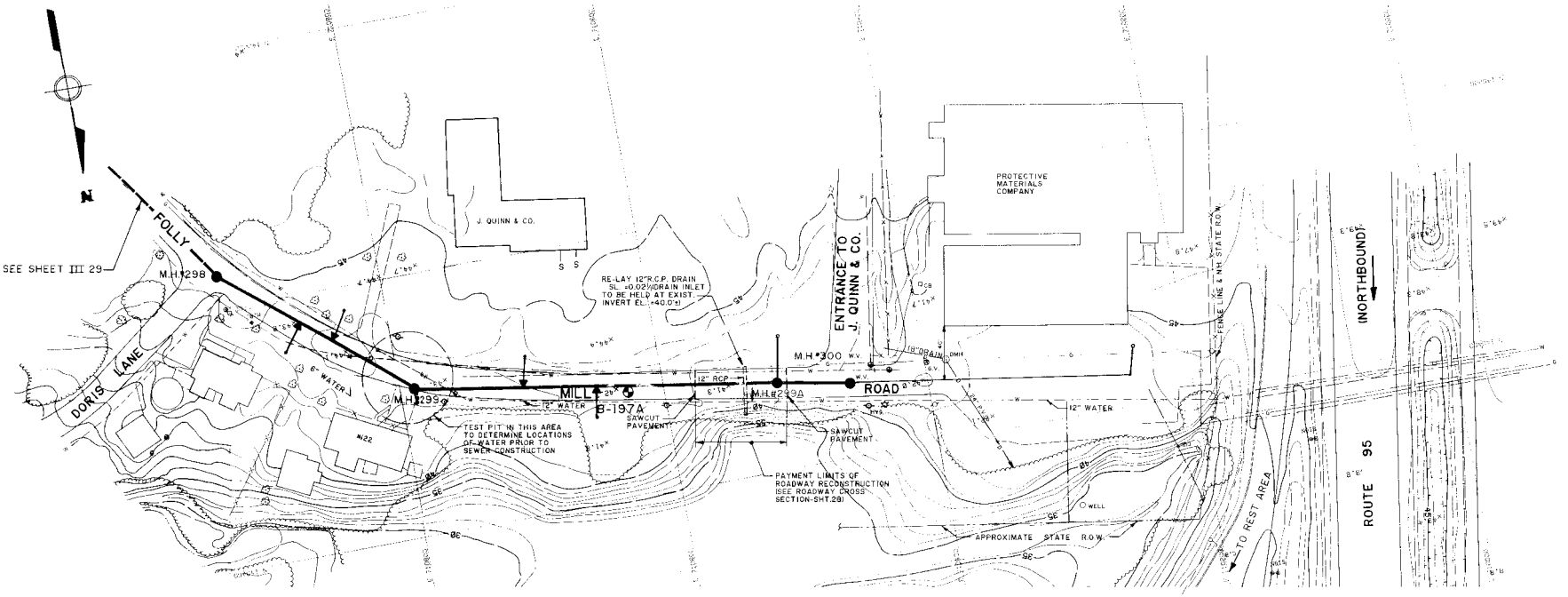
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD DRAWING BAJ	11/94	WM	BAJ	RBJ	11/94
2	ADDED BOYD'S WAY AND SURROUNDINGS JAP	1/94				
1	CHANGED MH#2974 298 ELEV. WM	10/89	RBJ		JAH	10/89
0	ISSUED FOR APPROVAL EHB	9/89	HEF	JOE	ENT	9/89

PROJECT SUPERVISOR Todd E. Hoyt — APPROVED John A. Higgins

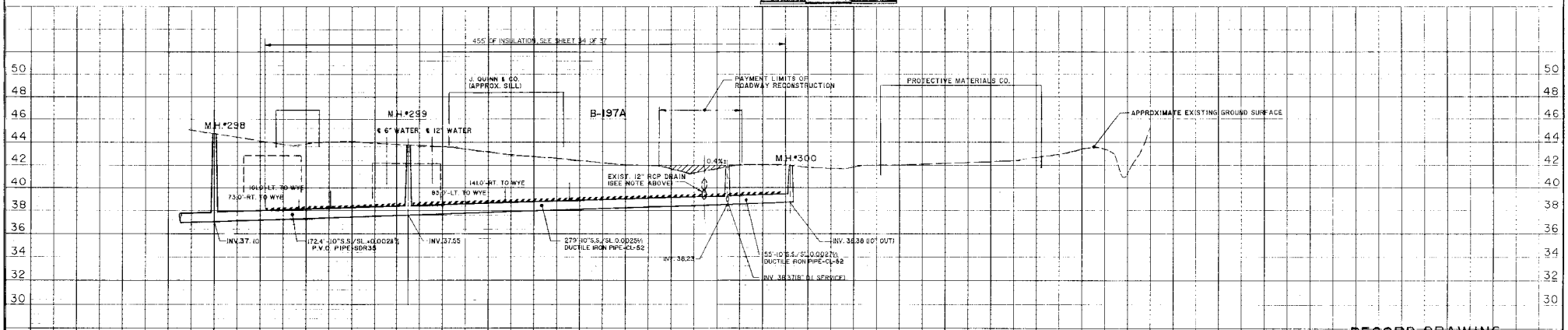
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 29 OF 37

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOLLY MILL ROAD
(MANHOLE NO. 298) - (MANHOLE NO. 300)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING				BHJ	12/94
2	BAJ	12/94	WM	BAJ	BHJ	8/93
1	FORCE MAIN DELEATED				JAH	10/89
0	EM	8/93	BHJ	LPR		
	ADDED PIPE INSULATION					
	WM	10/89	RBJ			
	1"=20' FOR APPROVAL					
	RMG		HEC	TEE	GMT	5/89

PROJECT SUPERVISOR: Howard E. Cheney
APPROVED: John A. Beach

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. III | SHEET 30 OF 37

SANITARY SEWER CONSTRUCTION

SEABROOK, NEW HAMPSHIRE

PUMPING STATIONS

1994

SELECTMEN
ELIZABETH A. THIBODEAU CHAIRPERSON
ASA H. KNOWLES JR..
BURWELL PIKE
TOWN MANAGER E. RUSSELL BAILEY

JONES & BEACH/STEARNS & WHEELER

JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

CONTRACT NO. 5

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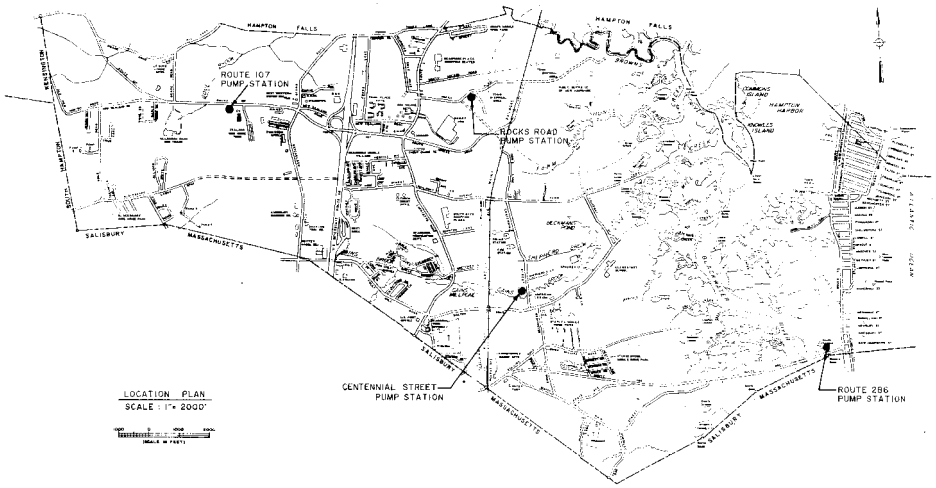
DWG. NO.	DRAWING TITLE
—	COVER SHEET
ROUTE 286 PUMP STATION	
01	SITE PLAN
02	ARCHITECTURAL PLAN & ELEVATIONS
03	STRUCTURAL & ARCHITECTURAL PLANS, SECTIONS, & DETAILS
04	MECHANICAL – PLANS & SECTIONS
05	MECHANICAL – SECTIONS & DETAILS
06	ELECTRICAL – PLANS & DETAILS
07	ELECTRICAL SCHEMATIC
08	ELECTRICAL – DETAILS & GENERAL NOTES
09	MISCELLANEOUS DETAILS
CAINS BROOK / CENTENNIAL STREET PUMP STATION	
10	SITE PLAN
11	ARCHITECTURAL PLAN & ELEVATIONS
12	MECHANICAL – PLANS & DETAILS
13	MECHANICAL – SECTIONS & DETAILS
14	ELECTRICAL – PLANS & DETAILS
15	ELECTRICAL SCHEMATIC
16	ELECTRICAL – DETAILS & GENERAL NOTES
17	MISCELLANEOUS DETAILS
ROCKS ROAD PUMP STATION	
18	SITE PLAN & DETAILS
ROUTE 107 (GOVE BROOK) PUMP STATION	
19	SITE PLAN & DETAILS
ROCKS ROAD & ROUTE 107 PUMP STATIONS	
20	MISCELLANEOUS DETAILS
20A	ARCHITECTURAL - MECHANICAL / ELECTRICAL DETAILS
21	EROSION CONTROL DETAILS
22	STANDARD MANHOLE DETAILS – SHT. 1 OF 2
23	STANDARD MANHOLE DETAILS – SHT. 2 OF 2
24	STANDARD TRENCH SECTIONS



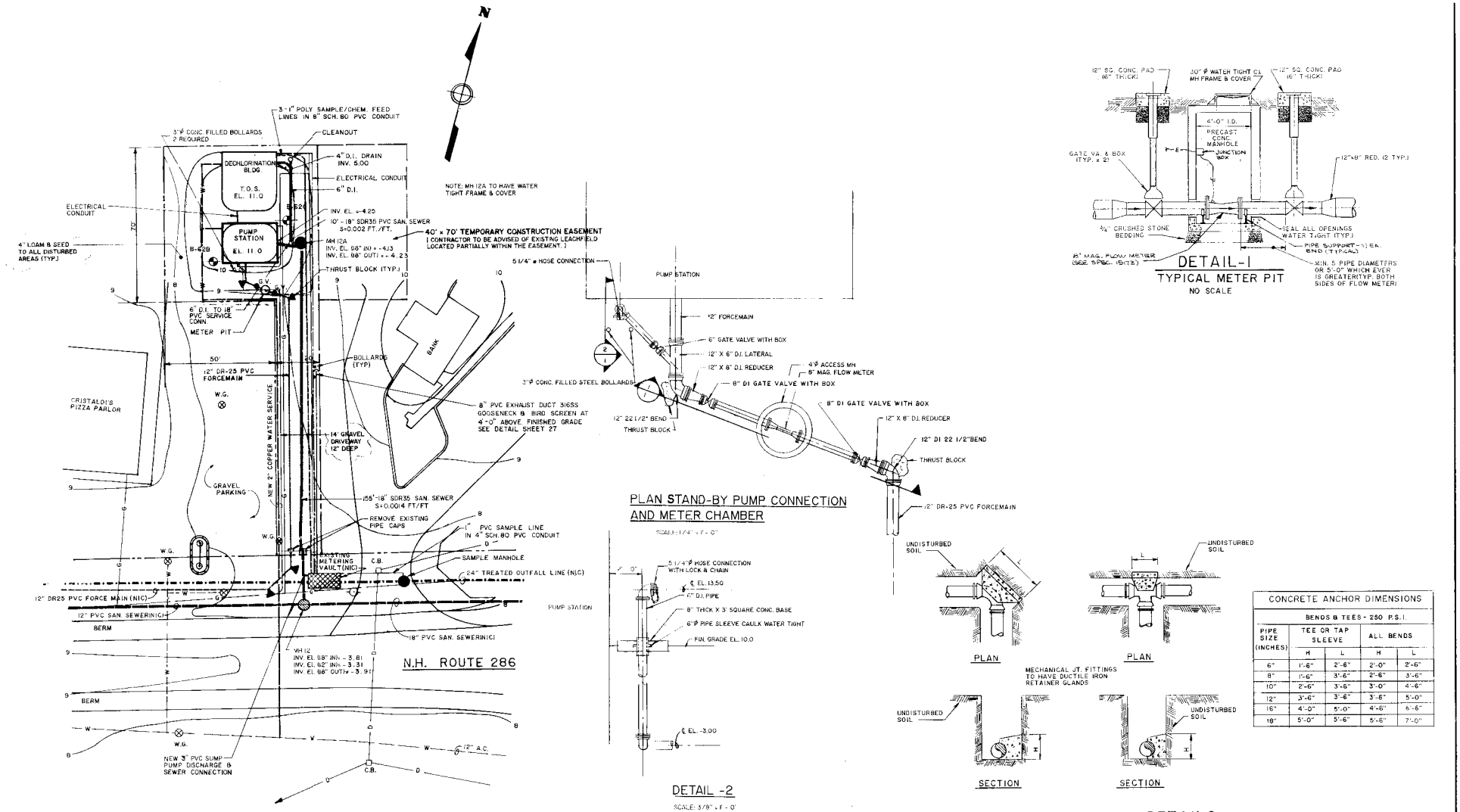
LOCATION PLAN
SCALE : 1" = 2000'

ABBREVIATIONS

BENCH MARK	BM
BITUMINOUS	BIT
CAST IRON PIPE	CIP
CATCH BASIN	C.B.
CONCRETE	CONC
CORRUGATED METAL PIPE	CMP
STORM DRAIN	D
ELEVATION	EL.
FENCE	FC
FINISHED FLOOR	F.F.
FORCE MAIN	F.M.
GAS MAIN	G
GUIDE POST	GP
HYDRANT	HYD
INVERT	INV
IRON PIN	IP
LAMP POLE	L.P.
MANHOLE	M.H.
MONUMENT	MON
PERMANENT EASEMENT	P.E.
RIGHT OF WAY	ROW
SEWER	S
STONE	ST
SEWER MANHOLE	SMH
TEMPORARY EASEMENT	T.E.
WATER	W
WOOD	WD
WOVEN WIRE	W.W.
PROPERTY LINE	℄
GRAVEL	GRAV.
TOP OF SLAB	T.O.S.
FINISH GRADE	F.G.
TYPICAL	TYP
POLYVINYL CHLORIDE	PVC
DUCTILE IRON	D.I.
CAST IRON	C.I.
CONCRETE MASONRY UNIT	C.M.U.

LEGEND

- PROPOSED SANITARY SEWER WITH LATERAL
- EXISTING SANITARY SEWER WITH LATERAL
- SANITARY SEWER WITH PROFILE ON ANOTHER SHEET
- FORCE MAIN
- PUMP STATION (PROPOSED/EXISTING) — P.S. / P.S.
- OCEAN OUTFALL WITH STATIONING — 2'00
- MANHOLE (PROPOSED/EXISTING) — M.H. / M.H.
- CATCH BASIN (PROPOSED/EXISTING) — C.B. / C.B.
- CULVERT — 12" C.M.P.
- HYDRANT — HYD
- WATER MAIN — W
- WATER VALVE/WATER SERVICE — W.V. / W.S.
- GAS MAIN — G
- GAS VALVE/GAS SERVICE — G.V. / G.S.
- UNDERGROUND TELEPHONE/ELECTRICAL — T / E
- STREAM/BROOK
- POND/WET AREA
- RIVER
- WOODS AND/OR BRUSH LINE
- APPROXIMATE TOWN/STATE LINE
- APPROXIMATE RIGHT-OF-WAY LINE
- EXISTING CONTOUR — 50
- PROPOSED CONTOUR — 50
- LEDGE OUTCROP
- RETAINING WALL
- GUARD RAIL
- STONE WALL
- FENCE
- CONIFEROUS/DECIDUOUS TREES
- SHRUBS OR BUSH — 3
- HOUSE OR BUILDING
- HOUSE NUMBER — 24
- HOUSE WITH SEWER SERVICE — S
- UTILITY POLE
- LAMP POLE — L.P.
- MAILBOX — M.B.
- SIGN
- BASELINE CONTROL POINT — M-1
- FABRIC FENCE (SILTATION CONTROL)


N
3-1" POLY SAMPLE/CHEM. FEED LINES IN 8" SCH. 80 PVC CONDUIT
3'ϕ CONC. FILLED BOLLARDS 2 REQUIRED
CLEANOUT
DECHLORINATION BLDG.
T.O.S. EL. 11.0
PUMP STATION
EL. 11.0
4" D.I. DRAIN INV. 5.00
ELECTRICAL CONDUIT
6" D.I.
INV. EL. +4.25
10'-18" SDR35 PVC SAN. SEWER S=0.002 FT./FT.
MH 12A
INV. EL. 98" IN = +4.13
INV. EL. 98" OUT = +4.23
40' x 70' TEMPORARY CONSTRUCTION EASEMENT
(CONTRACTOR TO BE ADVISED OF EXISTING LEACHFIELD LOCATED PARTIALLY WITHIN THE EASEMENT.)
NOTE: MH 12A TO HAVE WATER TIGHT FRAME & COVER
4" LOAM & SEED TO ALL DISTURBED AREAS (TYP.)
THRUST BLOCK (TYP.)
G.V.
6" D.I. TO 18" PVC SERVICE CONN.
METER PIT
50'
12" DR-25 PVC FORCEMAIN
BOLLARDS (TYP.)
BANK
CRISTALDI'S PIZZA PARLOR
W.G.
8" PVC EXHAUST DUCT 316SS GOOSENECK & BIRD SCREEN AT 4'-0" ABOVE FINISHED GRADE SEE DETAIL SHEET 27
14' GRAVEL DRIVEWAY 12" DEEP
NEW 2" COPPER WATER SERVICE
GRAVEL PARKING
155'-18" SDR35 SAN. SEWER S=0.0014 FT/FT
REMOVE EXISTING PIPE CAPS
1" PVC SAMPLE LINE IN 4" SCH. 80 PVC CONDUIT
EXISTING METERING VAULT (N.I.C.)
C.B.
SAMPLE MANHOLE
24" TREATED OUTFALL LINE (N.I.C.)
12" DR25 PVC FORCE MAIN (N.I.C.)
12" PVC SAN. SEWER (N.I.C.)
PUMP STATION
BERM
18" PVC SAN. SEWER (N.I.C.)
MH 12
INV. EL. 98" IN = -3.81
INV. EL. 92" IN = -3.31
INV. EL. 98" OUT = -3.91
N.H. ROUTE 286
BERM
W.G.
12" A.C.
NEW 3" PVC SUMP PUMP DISCHARGE & SEWER CONNECTION
C.B.

SITE PLAN OF ROUTE 286 PUMP STATION

SCALE: 1" = 20'

PUMP STATION
5 1/4" ϕ HOSE CONNECTION
12" FORCEMAIN
6" GATE VALVE WITH BOX
12" X 6" D.I. LATERAL
12" X 6" D.I. REDUCER
4'ϕ ACCESS MH
6" MAG. FLOW METER
3'ϕ CONC. FILLED STEEL BOLLARDS
8" DI GATE VALVE WITH BOX
12" 22 1/2° BEND
THRUST BLOCK
8" DI GATE VALVE WITH BOX
12" X 8" D.I. REDUCER
12" DI 22 1/2°BEND
THRUST BLOCK
12" DR-25 PVC FORCEMAIN

PLAN STAND-BY PUMP CONNECTION AND METER CHAMBER

SCALE: 1/4" = 1' - 0"

5 1/4"ϕ HOSE CONNECTION WITH LOCK & CHAIN
℄ EL. 13.50
10" D.I. PIPE
8" THICK X 3' SQUARE CONC. BASE
6"ϕ PIPE SLEEVE CAULK WATER TIGHT
FIN. GRADE EL. 10.0
℄ EL. -3.00

DETAIL -2

SCALE: 3/8" = 1' - 0"

12" SQ. CONC. PAD 16" THICK
30" ϕ WATER TIGHT CI MH FRAME & COVER
12" SQ. CONC. PAD 16" THICK
4'-0" I.D. PRECAST CONC. MANHOLE
JUNCTION BOX
GATE VA. & BOX (TYP. x 2)
12"x8" RED. (2 TYP.)
¾" CRUSHED STONE BEDDING
SEAL ALL OPENINGS WATER TIGHT (TYP.)
PIPE SUPPORT - ½ EA. END (TYPICAL)
8" MAG. FLOW METER (SEE SPEC. 15178)
MIN. 5 PIPE DIAMETERS OR 5'-0" WHICH EVER IS GREATER TYP. BOTH SIDES OF FLOW METER

DETAIL-1
TYPICAL METER PIT
NO SCALE

THRUST BLOCK DETAILS
NO SCALE

CONCRETE ANCHOR DIMENSIONS				
BENDS & TEES - 250 P.S.I.				
PIPE SIZE (INCHES)	TEE OR TAP SLEEVE		ALL BENDS	
	H	L	H	L
6"	1'-6"	2'-6"	2'-0"	2'-6"
8"	1'-6"	3'-6"	2'-6"	3'-6"
10"	2'-6"	3'-6"	3'-0"	4'-6"
12"	3'-6"	3'-6"	3'-6"	5'-0"
16"	4'-0"	5'-0"	4'-6"	6'-6"
18"	5'-0"	5'-6"	5'-6"	7'-0"

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
6	ADDED FINISH CONTOURS & DRIVEWAY	WK	3/95	BHJ		BHJ	3/95
5	ADDED DECHLORINATION FACILITY	EM	8/94	JEC		BHJ	8/94
4	ADDED TEMPORARY EASEMENT	JAP	7/94			BHJ	7/94
3	ADD STAND-BY PUMP & CONN.	RAH	8/91		JAH	BHJ	8/91
2	REVISED T.O.S. ELEV.	JAH	8/91	JOE	BHJ	BHJ	8/91
1	SITE PLAN REVISED	WM	5/90	JOE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	1/89	JOE	RG	JAH	1/89

PROJECT SURVEYOR: APPROVED

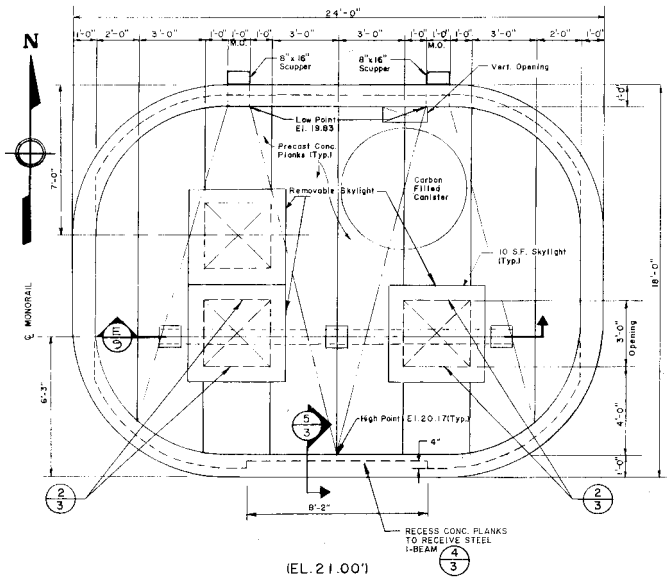
TOWN OF SEABROOK, NEW HAMPSHIRE

SITE PLAN
ROUTE 286 PUMP STATION

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 1 OF 28

H.H. SULLIVAN, INC. 606397



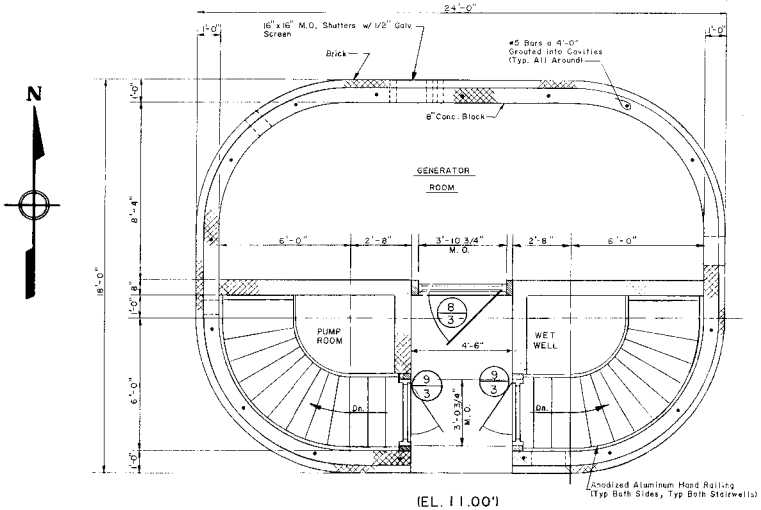
(EL. 21.00')

PLAN-ROOF

3/8" = 1'-0"

NOTE:

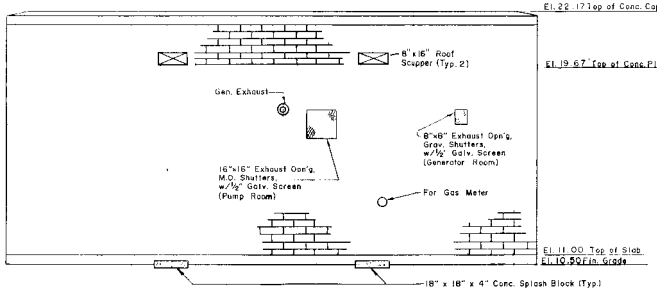
1. ROOF SHALL BE DESIGNED TO SUPPORT 100 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD PLUS A SUPERIMPOSED POINT LOAD OF ABOUT 4000 POUNDS FOR THE SPENT CARBON CANISTER
2. FLOOR(S) SHALL BE DESIGNED TO SUPPORT 300 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
3. THE CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE



(EL. 11.00')

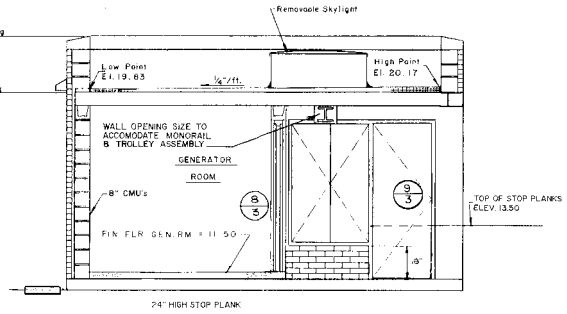
PLAN - GROUND FLOOR

3/8"=1'-0"


El. 22.17 Top of Conc. Coping
8"x16" Roof Scupper (Typ. 2)
El. 19.67 Top of Conc. Plank
Gen. Exhaust
8"x8" Exhaust Opn'g, Grav. Shutters, w/ 1/2" Galv. Screen (Generator Room)
16"x16" Exhaust Opn'g, M.O. Shutters, w/1/2" Galv. Screen (Pump Room)
For Gas Meter
El. 11.00 Top of Slab
El. 10.50 Fin. Grade
18" x 18" x 4" Conc. Splash Block (Typ.)

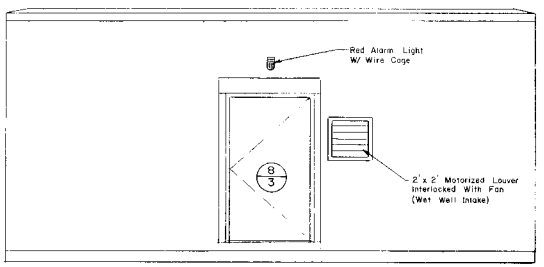
NORTH ELEVATION

3/8"=1'-0"


Removable Skylight
High Point El. 20.17
Low Point El. 19.83
1/4"/ft.
WALL OPENING SIZE TO ACCOMODATE MONORAIL & TROLLEY ASSEMBLY
GENERATOR ROOM
8" CMU's
FIN. FLR. GEN. RM. = 11.50
TOP OF STOP PLANKS ELEV. 13.50
24" HIGH STOP PLANK

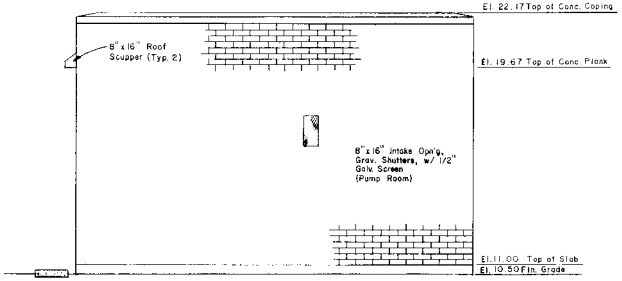
CROSS SECTION LOOKING EAST

3/8"=1'-0"



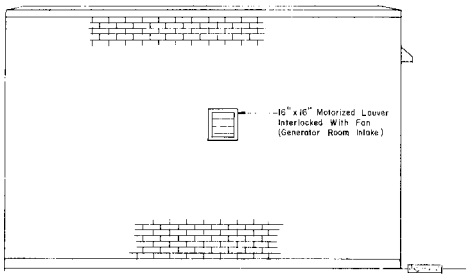
SOUTH ELEVATION

3/8"=1'-0"


El. 22.17 Top of Conc. Coping
8"x16" Roof Scupper (Typ. 2)
El. 19.67 Top of Conc. Plank
8"x16" Intake Opn'g, Grav. Shutters, w/ 1/2" Galv. Screen (Pump Room)
El. 11.00 Top of Slab
El. 10.50 Fin. Grade

WEST ELEVATION

3/8"=1'-0"



EAST ELEVATION

3/8"=1'-0"

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	ADDED BRICK FACE	DT	6/94	JEC	BHJ	BHJ	8/94
3	ADDED 1' TO T.O.S. EL.	JAH	8/91	JOE	JAH	BHJ	8/91
2	GENERAL REVISIONS	WM	5/90	JOE	JAH	JAH	5/90
0	Issued for Approval	RG	12/88	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: John H. Haggett — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION

ARCHITECTURAL

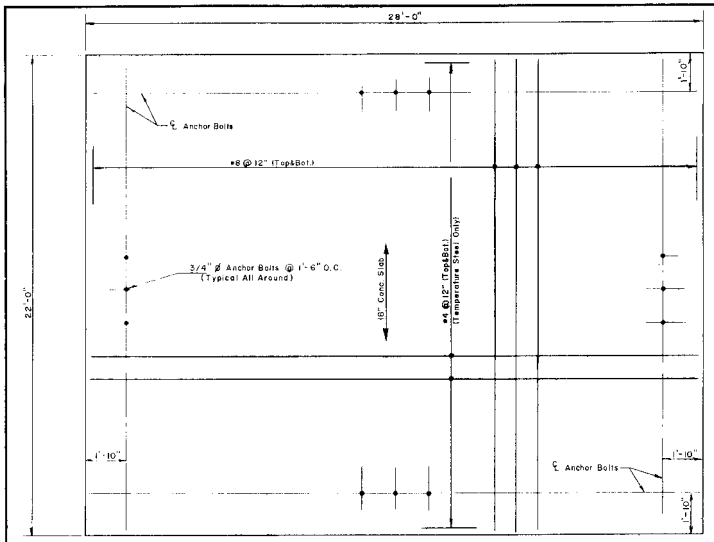
PLAN & ELEVATIONS

Jones & Beach / Stearns & Wheler

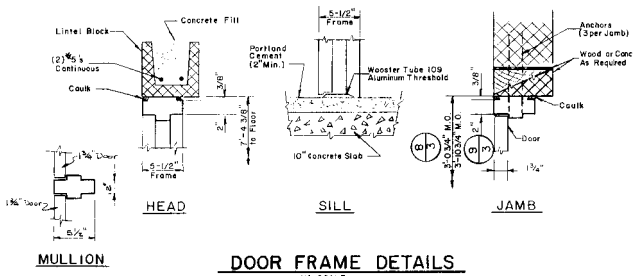
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

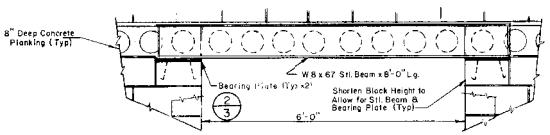
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 2 OF 28



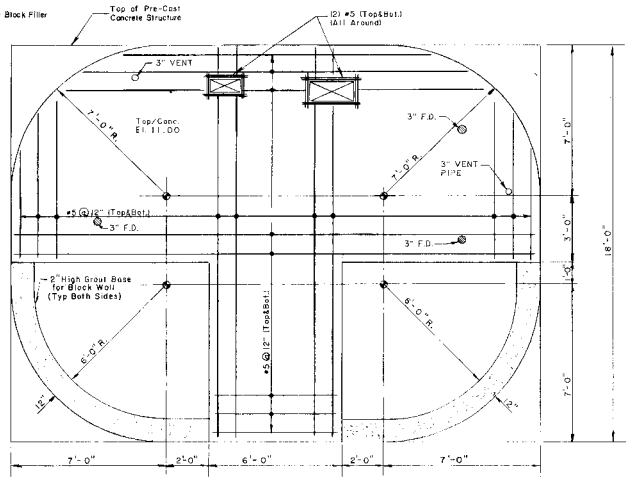
(EL. -12.67)
PLAN-FOUNDATION SLAB
3/8"=1'-0"



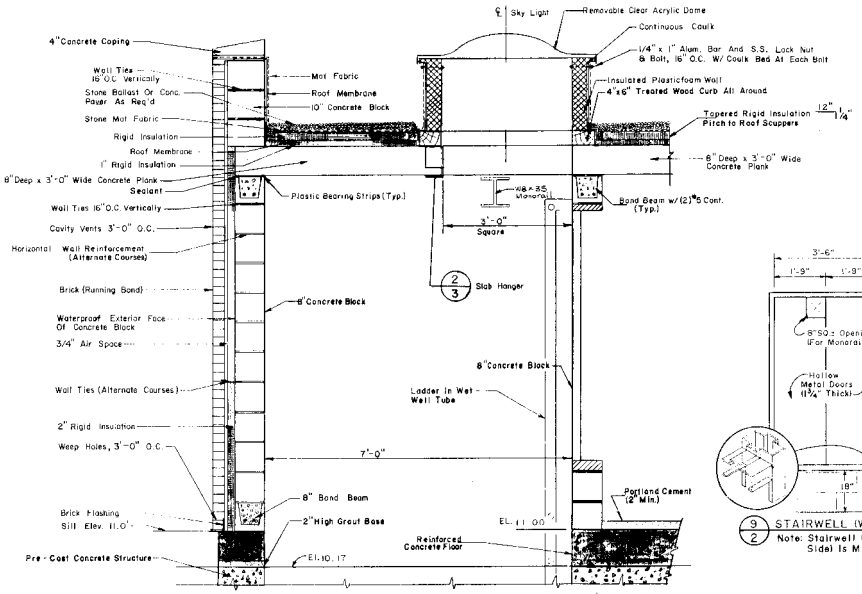
DOOR FRAME DETAILS
NO SCALE


8" Deep Concrete Planking (Typ)
W8 x 67 Stl. Beam x 8'-0" Lg.
Bearing Plate (Typ x2)
Shorten Block Height to Allow for Stl. Beam & Bearing Plate (Typ)
6'-0"

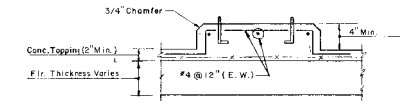
4/2 ENTRYWAY BEAM SECTION
NO SCALE



(EL. 11.00)
PLAN-UPPER LEVEL SLAB
3/8"=1'-0"

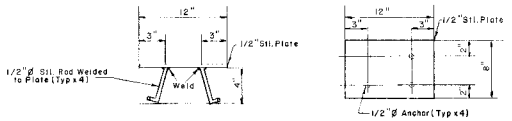


EXTERIOR WALL, ACCESS TUBE & ROOF SECTION
3/4"=1'-0"

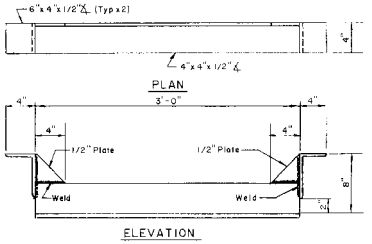


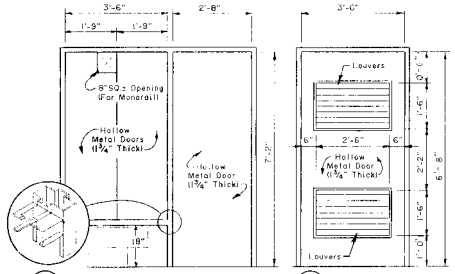
NOTE: Size & Location of Pads & Anchor Bolts Shall Be Determined in Accordance with Equipment to be Installed

(GENERATOR, M.C.C.-E.C.C & PUMP PADS)
TYPICAL CONCRETE PAD SECTION
NO SCALE



3/3 BEARING PLATE DETAIL
NO SCALE



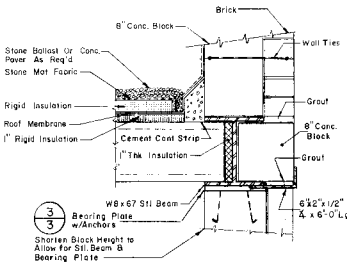


9/2 STAIRWELL (Wet Well Side)
Note: Stairwell (Pump Room Side) Is Mirror Image

8/2 GENERATOR ROOM (11 Req'd)

(For Further Information See Door Frame Details Above)

DOOR DETAILS
NO SCALE



3/3 Bearing Plate w/Anchors

5/2 BEAM CROSS SECTION
NO SCALE

2/2&3 SLAB HANGER DETAIL
NO SCALE

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	GEN. REVISIONS				BHJ	5/94
	DT	9/94	JEC	BHJ		
2	GEN. REVISIONS				BHJ	12/92
	GEB	12/92	JAH	BHJ		
1	REVISED T.O.S. TO 11.00				BHJ	8/91
	JAH	8/91	JOE	JAH		
0	Issued For Approval				JAH	1/89
	RC	11/88	JOE	RS / JAH		

PROJECT SUPERVISOR: John A. Chiggino
APPROVED

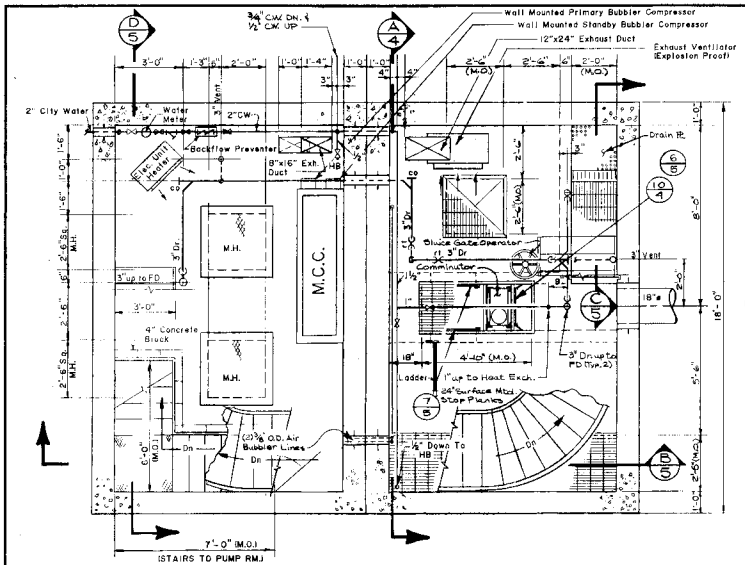
TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION

STRUCTURAL & ARCHITECTURAL PLANS, SECTIONS & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

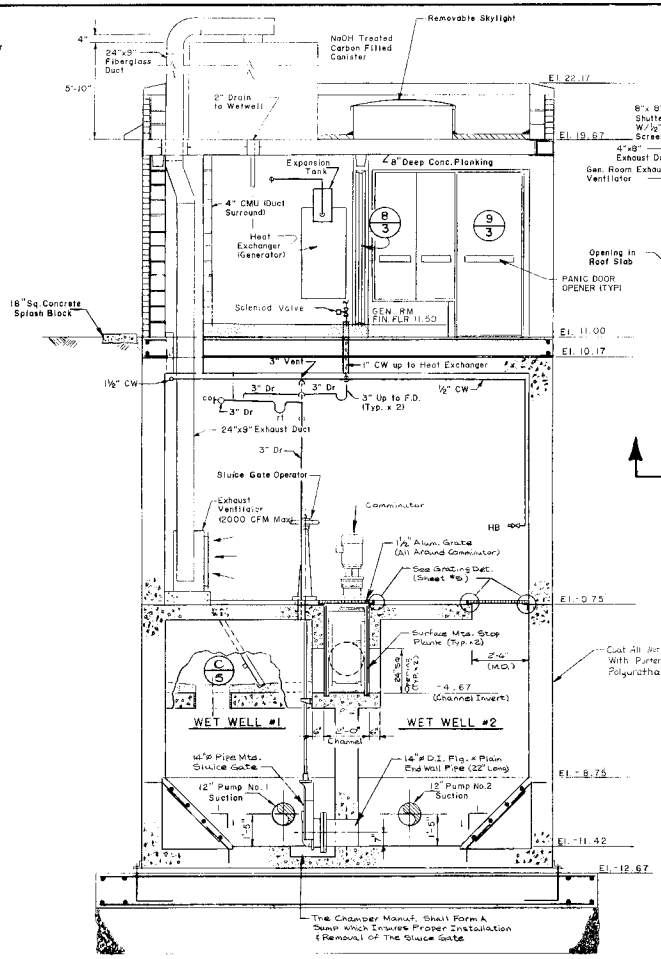
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 3 OF 28



(EL.-0.08)

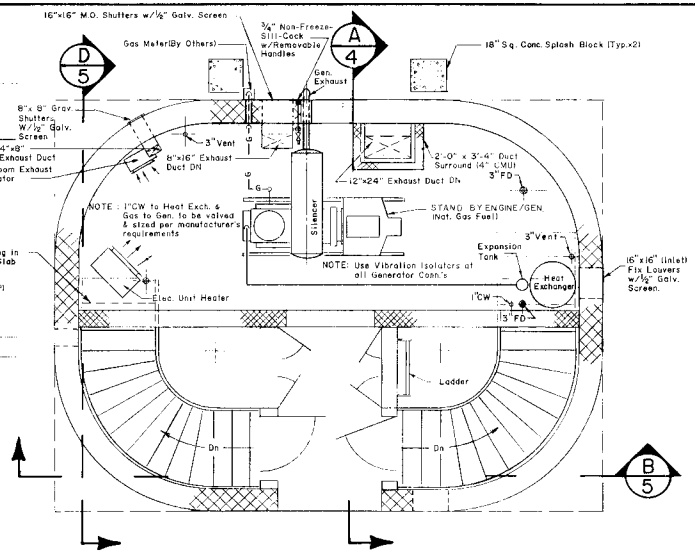
PLAN-MID LEVEL

3/8" = 1'-0"


Removable Skylight
NaOH Treated Carbon Filled Canister
24"x9" Fiberglass Duct
2" Drain to Wetwell
EL. 22.17
EL. 19.67
8" Deep Conc. Planking
Expansion Tank
4" CMU (Duct Surround)
Heat Exchanger (Generator)
Solenoid Valve
GEN. RM FIN. FLR 11.50
PANIC DOOR OPENER (TYP.)
Opening in Roof Slab
18" Sq. Concrete Splash Block
EL. 11.00
EL. 10.17
3" Vent
1" CW up to Heat Exchanger
1½" CW
3" Up to F.D. (Typ. x 2)
24"x9" Exhaust Duct
Sluice Gate Operator
Exhaust Ventilator 12000 CFM Max.
Comminutor
1½" Alum. Grate (All Around Comminutor)
See Grating Det. (Sheet #6)
EL. -0.75
Surface Mtd. Stop Planks (Typ.2)
-4.67 (Channel Invert)
WET WELL #1
WET WELL #2
14"ø Pipe Mtds. Sluice Gate
14"ø D.I. Flg. x Plain End Wall Pipe (22" Long)
12" Pump No.1 Suction
12" Pump No.2 Suction
EL. -8.75
EL. -11.42
EL. -12.67
Coat All Wet Well Interior Surfaces With Porter Int. Polurial 670 + 705 Polyurethane
The Chamber Manuf. Shall Form A Dump Which Insures Proper Installation & Removal of the Sluice Gate

SECTION A/4

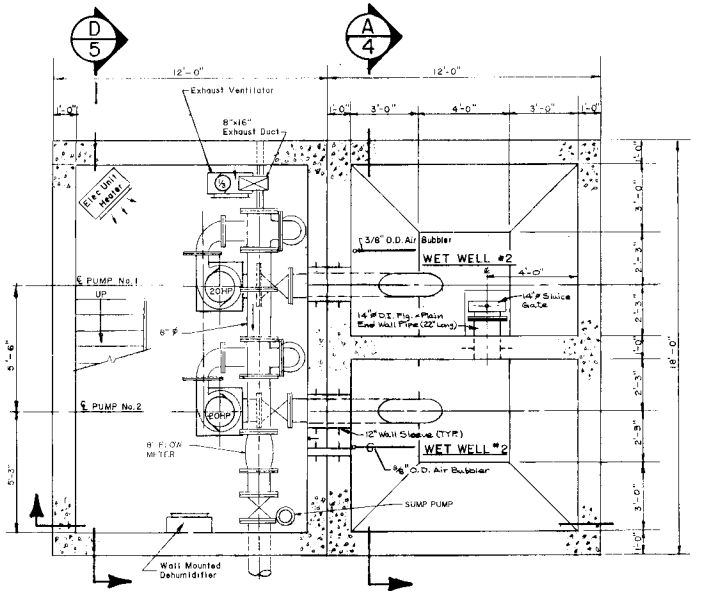
3/8" = 1'-0"


16"x16" M.O. Shutters w/½" Galv. Screen
Gas Meter(By Others)
¾" Non-Freeze-Stl-Cock w/Removable Handles
18" Sq. Conc. Splash Block (Typ.x2)
Gen. Exhaust
8"x 8" Grav. Shutters W/½" Galv. Screen
3" Vent
4"x9" Exhaust Duct
Gen. Room Exhaust Ventilator
8"x16" Exhaust Duct Dn
2'-0" x 3'-4" Duct Surround (4" CMU)
12"x24" Exhaust Duct Dn
3"FD
NOTE: 1"CW to Heat Exch. & Gas to Gen. to be valved & strad per manufacturer's requirements
STAND BY ENGINE/GEN. (Nat. Gas Fuel)
Silencer
Expansion Tank
NOTE: Use Vibration Isolators at all Generator Conn's
16"x16" (inlet) Fix Louvers w/½" Galv. Screen.
Elec. Unit Heater
1"CW
Heat Exchanger
1½" FD
Ladder
Dn

(EL. 11.00)

PLAN-UPPER LEVEL

3/8" = 1'-0"

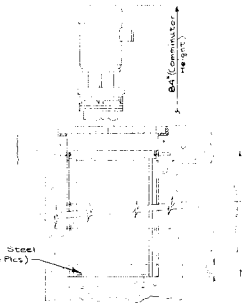


(EL.-11.42)

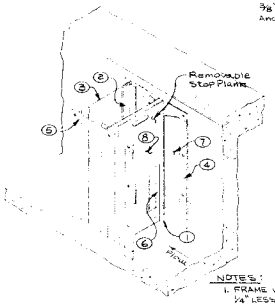
PLAN-LOWER LEVEL

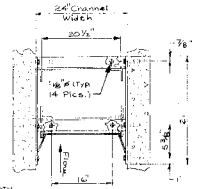
3/8" = 1'-0"

CHANNEL FRAME PARTS LIST			
ITEM	QTY.	DESCRIPTION	DIMENSIONS
1	2	1"x1½"x⅛ Channel	3'-5½"
2	4	2"x2"x¼" Angle	3'-7"
3	4		1'-11¾"
4	2	2"x¼" Flat	3'-5"
5	4		1'-3½"
6	2	3"x¼" Flat	3'-4¾"
7	2	¼" Plate	3'-5¾"x0'-2¾"
8	1		3'-8"x1'-8"



CHANNEL VIEW





TOP VIEW
(COMMINUTOR NOT SHOWN)

MECHANICAL NOTES

1) ALL EQUIPMENT AND FLOOR DRAINS SHALL BE INDIVIDUALLY TRAPPED IN ACCORDANCE WITH THE LATEST EDITION OF STATE AND LOCAL PLUMBING CODES
2) ALL NATURAL GAS PIPING SHALL BE SIZED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
3) THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY FLOW VALVES, DRIPS, DRYERS, METERS, COCKS, REGULATORS, STRAINERS AND APPERTENANCES TO CONSTRUCT A WORKING GAS SYSTEM SERVICING THE EMERGENCY GENERATOR AND UNIT HEATERS. THIS SYSTEM SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES.

RECORD DRAWING (10/4) COMMINUTOR CHANNEL FRAME DETAILS

NO SCALE

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
5	KJL	04/96	BHJ		BHJ	04/96
4	PAT	12/94	BHJ	BHJ	BHJ	12/92
3	GB	11/92	WM	BHJ	BHJ	8/91
2	JAH	8/91	JOE	JAH	JAH	5/90
1	WM	5/90	JOE		JAH	1/89
0	RG	11/88	JOE	RG		

REVISED T.O.S. TO 11.00
GENERAL REVISIONS
ISSUED FOR APPROVAL

PROJECT APPROVED: APPROVED

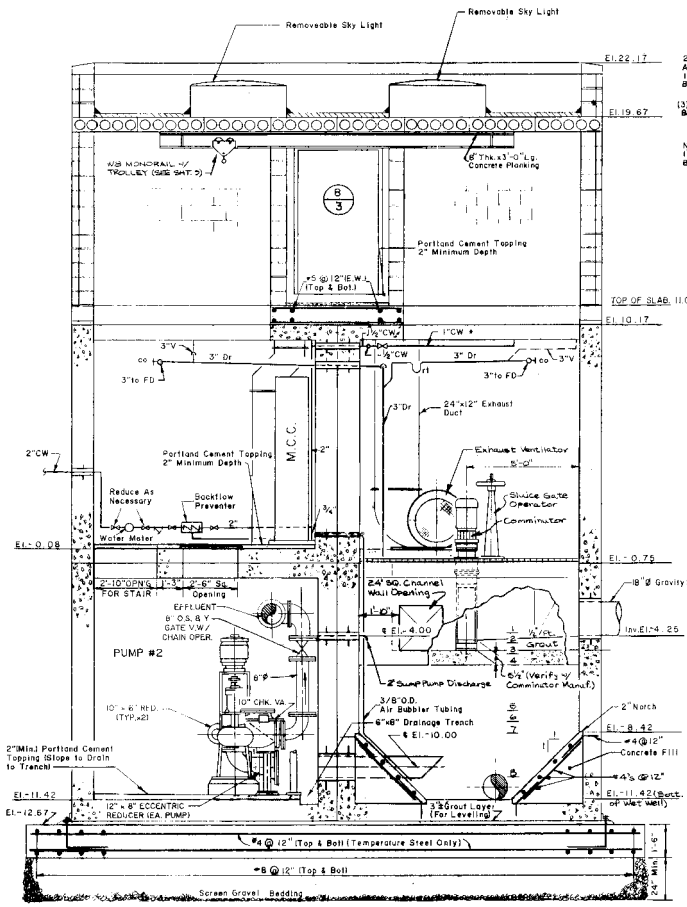
TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION

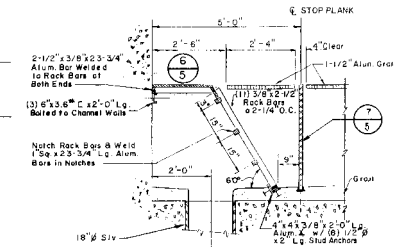
MECHANICAL PLANS & SECTIONS

Jones & Beach / Stearns & Wheler
JOINT VENTURE - CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 CONTRACT NO. V SHEET 4 OF 28

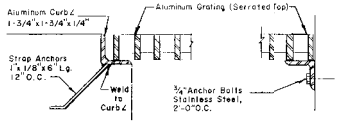


SECTION B/4
3/8"= 1'-0"


℄ STOP PLANK
5'-0"
2'-6"
2'-4"
4" Clear
1-1/2" Alum. Grate
2-1/2" x 3/8" x 2'-3-3/4" Alum. Bar Welded to Rack Bars at Both Ends
(11) 3/8 x 2-1/2" Rack Bars @ 2-1/4" O.C.
(3) 6" x 3.6# C x 2'-0" Lg. Bolted to Channel Walls
Notch Rack Bars & Weld 1" Sq. x 2'-3-3/4" Lg. Alum. Bars in Notches
2'-0"
60°
9"
Grout
18" Ø Sly
4" x 4" x 3/8" x 2'-0" Lg. Alum. ∠ w/ (8) 1/2" Ø x 2" Lg. Stud Anchors

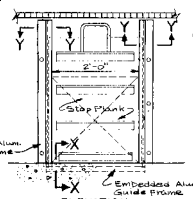
SECTION C/4
NO SCALE

* 1" ø CW Line to Heat Exchanger (Reduce Line Size at Heat Exch. per Manufacturer's Requirements)

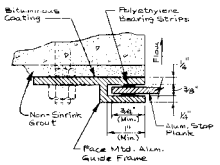

Aluminum Curb ∠ 1-3/4" x 1-3/4" x 1/4"
Aluminum Grating (Serrated Top)
Strap Anchors 1" x 1/8" x 6" Lg. 12" O.C.
Weld to Curb ∠
3/4" Anchor Bolts Stainless Steel, 2'-0" O.C.

GRATING ANGLE DETAIL
NO SCALE

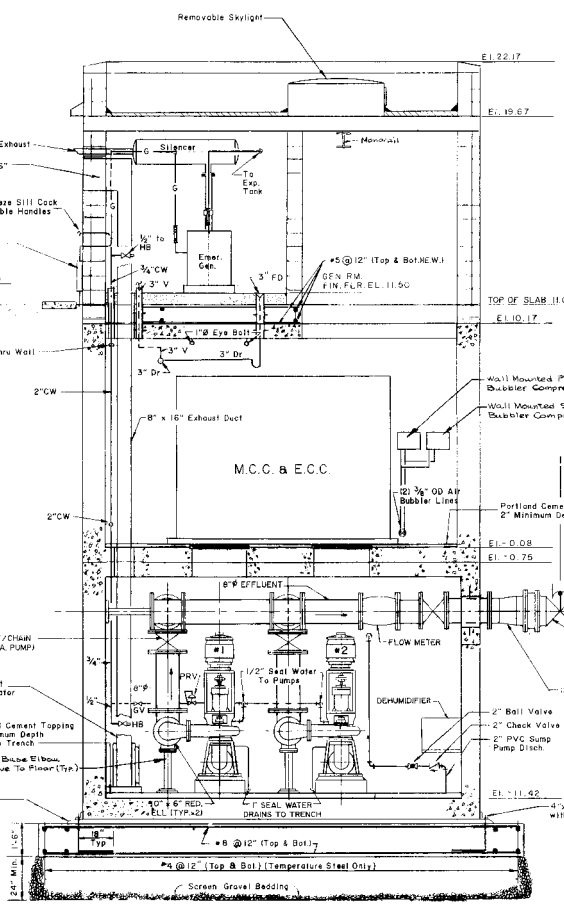
PUMP SCHEDULE		
No.	DESCRIPTION	ELEV.
1	INVERT INFLUENT SEWER	- 4.25
2	HIGH LEVEL ALARM	- 4.33
3	START LAG PUMP	- 4.81
4	START LEAD PUMP	- 5.33
5	STOP LAG PUMP	- 7.42
6	STOP LEAD PUMP	- 7.92
7	LOW LEVEL ALARM	- 8.42
8	BOTTOM BUBBLER TUBE	- 10.42



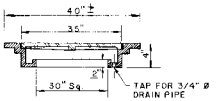
ELEVATION
WET WELL INLET (TYP. 2)



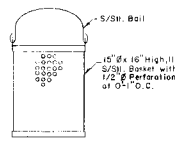
FRAME SECTION Y-Y



SECTION D/4
3/8"= 1'-0"

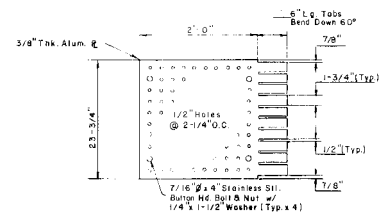


DETAIL
M.H. FRAME & LID
NO SCALE

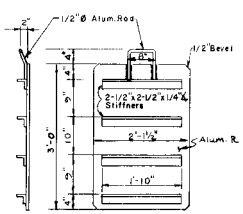


DETAIL
SCREENINGS BASKET
NO SCALE

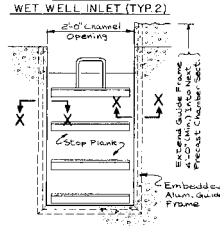
NOTE: PUMP STATION SHALL HAVE AN H2S SENSOR INSTALLED IN THE WET WELL AREA. THE CONTRACTOR SHALL PROVIDE THE NECESSARY ALARM CONTACTS IN THE RADIO TELEMETRY SYSTEM, AND PROVIDE THE ALARM LIGHTS AS SHOWN IN THE DETAILS & SCHEMATICS ON SHT. #8.


6" Lg. Tabs Bend Down 60°
2'-0"
3/8" Thk. Alum. ℄
7/8"
1-3/4" (Typ.)
1/2" Holes @ 2-1/4" O.C.
2'-3-3/4"
1/2" (Typ.)
7/8"
7/16" Ø x 4" Stainless Stl. Button Hd. Bolt & Nut w/ 1/4" x 1-1/2" Washer (Typ. x 4)

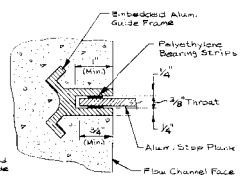
6/5 DRAIN PLATE DETAIL
NO SCALE



ALUMINUM STOP PLANK



ELEVATION
BYPASS INLET



FRAME SECTION X-X

7/415 ALUMINUM STOP PLANK & FRAME DETAILS
NO SCALE

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	KJL	03/96	BHJ		BHJ	03/96
1	REVISED T.O.S. TO 11.00 JAH 8/91		JOE	JAH	BHJ	8/91
0	ISSUED FOR APPROVAL RG 11/88		JOE	RG	JAH	1/89

PROJECT SUPERVISOR: APPROVED

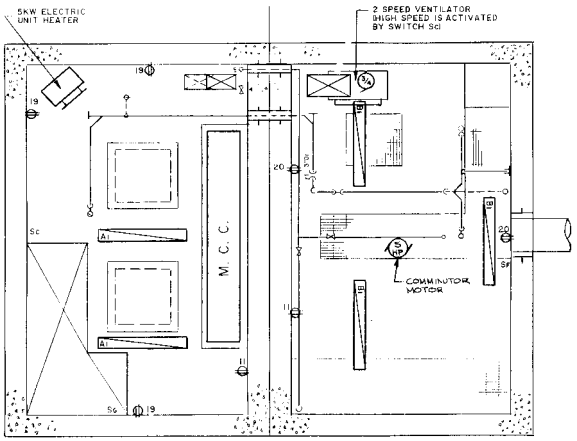
TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION

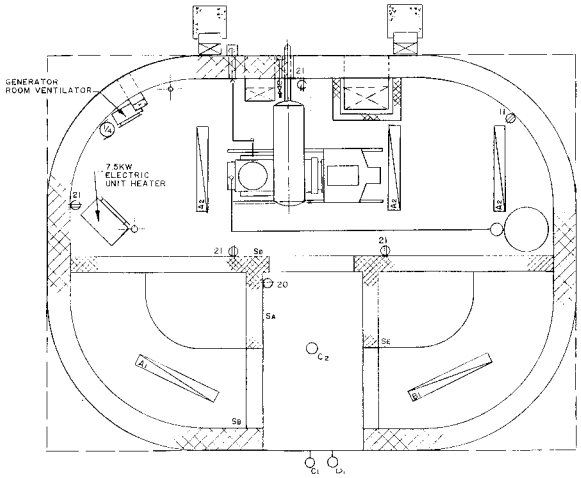
MECHANICAL
SECTIONS & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

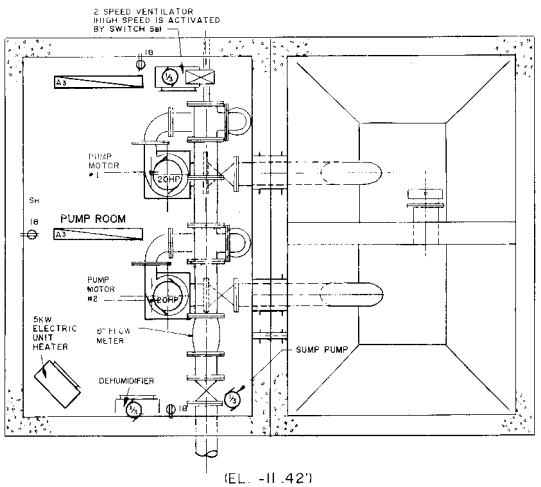
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 5 OF 28



(EL.-0.08')
PLAN-MID LEVEL
3/8"=1'-0"



(EL. 11.00')
PLAN-UPPER LEVEL
3/8"=1'-0"



(EL. -11.42')
PLAN-LOWER LEVEL
3/8"=1'-0"

LABEL	SWITCH	LOCATION		QTY	TYPE
		LEVEL	AREA		
C_2	S_A	UPPER LEVEL (EL. 11.00)	ENTRY	1	35 WATT H.P.S. SURFACE MOUNTED, SHIELDED MOISTURE & CORROSION RESISTANT
A_2	S_B		GENERATOR ROOM	3	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
A_1	S_B & S_C *		M.C.C. ROOM & STAIRWAY	1	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
B_1	S_E & S_F *		WET WELL STAIRWAY	1	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED EXPLOSION PROOF, CORROSION RESISTANT
C_1	—		FRONT DOOR OUTSIDE	1	35 WATT H.P.S. BRACKET MTD. WEATHER PROOF, VANDAL & CORROSION RESISTANT, PHOTOELEC. ACTUATED
	S_C & S_B	MID LEVEL (EL. -0.08)	M.C.C. AREA	3	1-40 WATT LAMP, SURFACE MOUNTED, EXPLOSION PROOF, CORROSION RESISTANT
B_1	S_E & S_F		WET WELL	3	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED EXPLOSION PROOF, CORROSION RESISTANT
	S_G & S_H	LOWER LEVEL (EL. -11.42)	PUMP ROOM	3	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
D_1	AUTOMATIC	UPPER LEVEL (11.00)	ABOVE FRONT ENTRANCE	1	1-100 WATT RED LAMP, SURFACE MTD., WEATHER PROOF, VANDAL & CORROSION RESISTANT

* LIGHT SWITCH ACTIVATES HIGH SPEED ON VENTILATOR

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	KJL	04/96	DHJ		bh	04/96
	RECORD DRAWING					
2	JAH	8/91	JOE	JAH	BHJ	8/91
	REVISED FLR. ELEV.					
1	WM	5/90	JOE		JAH	5/90
	GENERAL REVISIONS					
0	RG	1/89	JOE	RG	JAH	1/89
	ISSUED FOR APPROVAL					

PROJECT SUPERVISOR APPROVED

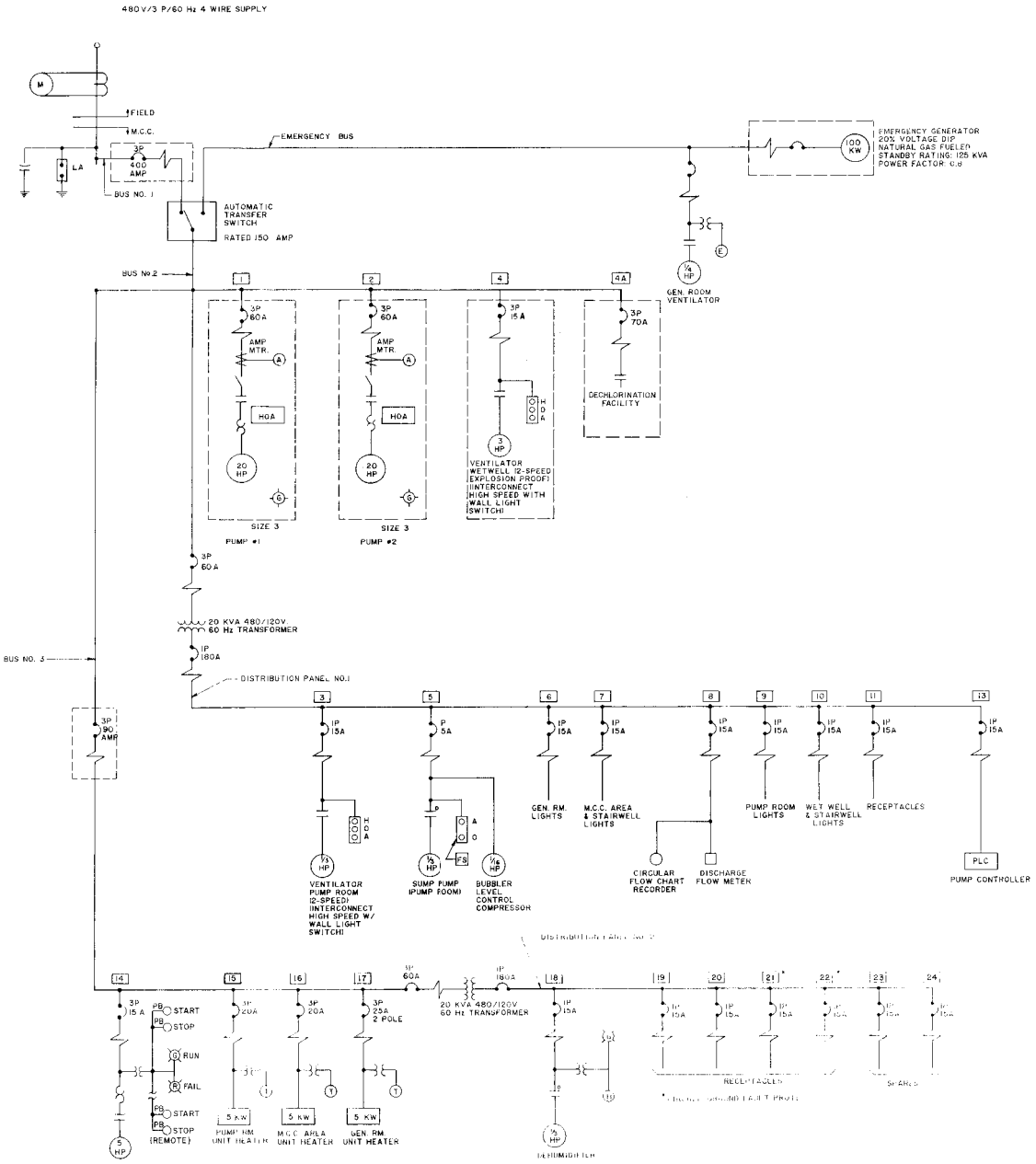
TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION.

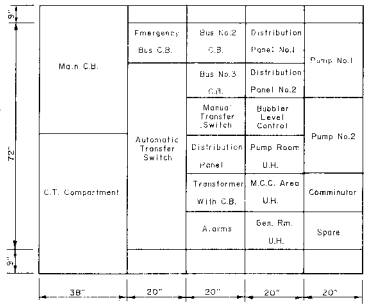
ELECTRICAL
PLANS & DETAIL

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 6 OF 28



SINGLE LINE DIAGRAM



MOTOR CONTROL CENTER

NOTE :

1) CONDUCTORS NOT SPECIFIED SHALL BE AT LEAST NO.12 (COPPER).
2) CONTROL WIRES & CONDUIT FROM THE TRANSFER SWITCH TO THE GENERATOR SHALL BE PROVIDED PER RECOMMENDATIONS OF THE TRANSFER SWITCH MFGR. TRANSFER SWITCH SHALL HAVE BUILT IN CIRCUIT BREAKER & MAGNETIC TRIP DEVICE.
3) THERMOSTATS & HUMIDISTATS SHALL BE LOCATED ON THE WALL FOR MAXIMUM EFFICIENCY.
4) ALL WIRE SIZES & CIRCUIT BREAKER SIZES WITHIN THE PUMP STATION ARE SUBJECT TO THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS & ANY APPLICABLE CODES AT THE TIME OF INSTALLATION.
5) 480 V/3P/60Hz SHALL BE SUPPLIED TO THE SEWERAGE PUMPS.

LEGEND-ELECTRICAL

- PUSH BUTTON START
- PUSH BUTTON STOP OR RESET
- LIMIT SWITCH
- 2 WIRE / 3 WIRE } LIGHT CIRCUITS
- FUSE
- SURGE CAPACITOR
- LA LIGHTNING ARRESTOR
- N.C. CONTACT
- GROUND
- CIRCUIT BREAKER
- MAGNETIC TRIP DEVICE
- THERMAL TRIP DEVICE
- CT CURRENT TRANSFORMER
- CONTROL TRANSFORMER / PT= POTENTIAL TRANSFORMER
- STEP DOWN TRANSFORMER
- A = AMMETER; CR=CONTROL RELAY, TR= TIME DELAY RELAY M, R, S = CONTACTORS; SV= SOLENOID VALVE, LR= LEVEL CONTROL RELAY
- R LIGHT: R= RED; G= GREEN; Y= YELLOW; W= WHITE
- STARTER WITH SIZE INDICATOR
- N.O. CONTACT
- OTT OVER TEMPERATURE THERMAL DEVICE
- S SWITCH / S E EXPLOSION PROOF SWITCH
- S, S1, S2 TOGGLE SWITCH / 3-WAY SWITCH
- DUPLEX RECEPTACLE / E EXPLOSION PROOF / W WEATHER PROOF
- J JUNCTION BOX
- T THERMOSTAT
- H HUMIDISTAT
- PB PUSH BUTTON, START OR STOP
- H O A SELECTOR SWITCH, HOA= HAND, OFF, AUTO; FOR= FORWARD, OFF, REVERSE
- H O SELECTOR SWITCH HO= HAND, OFF
- L LEVEL SWITCH - BUBBLER CONTROL
- CB CIRCUIT BREAKER
- E/PS ELAPSED TIME METER / FLOAT SWITCH

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	REVISE NOTE 5, ADD DECHLOR. FACILITY	DT	9/94	BHJ	BHJ	BHJ	9/94
2	ADD NOTE 5	DRT	3/94	BHJ	BHJ	BHJ	3/94
1	GEN. REVISIONS	WM	5/90	JOE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	11/88	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: John C. Stearns — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

ROUTE 286 PUMP STATION

ELECTRICAL SCHEMATIC

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

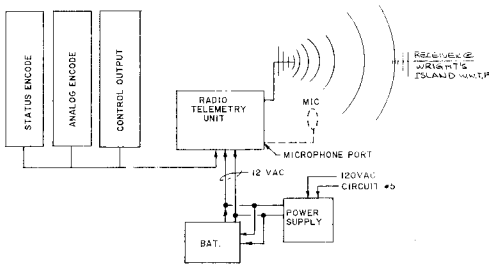
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 7 OF 28

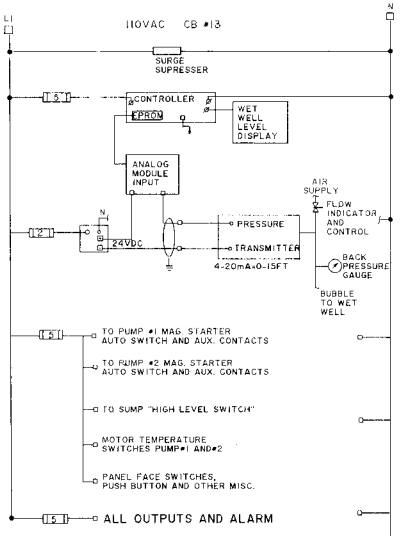
H.H. SULLIVAN, INC. 826687

GENERAL NOTES

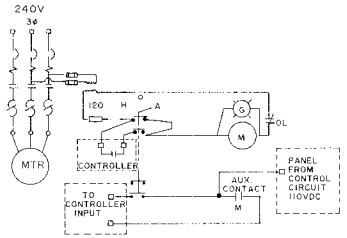
1) SUBSURFACE UTILITY LOCATIONS ARE BASED ON LIMITED INVESTIGATIONS OF EXISTING RECORDS AND ARE NOT WARRANTED TO BE CORRECT.
2) THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AT THE TIME OF CONSTRUCTION WITH THE VARIOUS UTILITY COMPANIES INVOLVED OR PRESUMED TO BE INVOLVED, AND MAKE TEST PIT EXCAVATIONS AS REQUIRED OR DIRECTED
3) ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD & UNDERGROUND UTILITIES CROSSING OR NEAR TRENCH EXCAVATIONS OR RELATED WORK, SHALL BE PROTECTED & SUPPORTED BY THE CONTRACTOR THROUGH OUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH FACILITIES OR FEATURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
4) ALL WORK TO BE IN CONFORMANCE WITH TOWN OF SEABROOK STANDARDS FOR WATER, SEWER AND DRAINAGE CONSTRUCTION (COPIES AVAILABLE AT THE TOWN OFFICES), WHERE THERE ARE CONFLICTS, STATE STANDARDS SHALL PREDOMINATE.
5) ALL WATER MAIN REPAIRS WILL BE PERFORMED BY THE TOWN OF SEABROOK AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
6) WHERE WORK REQUIRES RELOCATION, REPAIR OR CONNECTION TO EXISTING GAS LINES, THE WORK SHALL BE PERFORMED BY THE GAS COMPANY & SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
7) WHERE DAMAGE IS INCURRED ON TELEPHONE CABLES, EITHER BURIED OR OVERHEAD, REPAIRS SHALL BE MADE BY THE TELEPHONE COMPANY AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
8) WHERE DAMAGE IS INCURRED ON BURIED OR OVERHEAD ELECTRIC WIRES, REPAIRS SHALL BE MADE BY THE ELECTRIC COMPANY & PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.



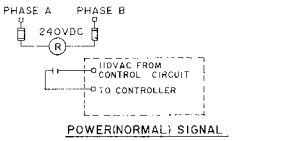
REMOTE TRANSMITTER/RECEIVER



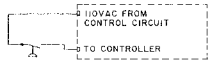
CONTROL-POWER CIRCUIT



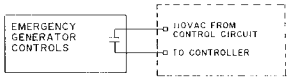
TYPICAL OF EACH PUMP



POWER(NORMAL) SIGNAL

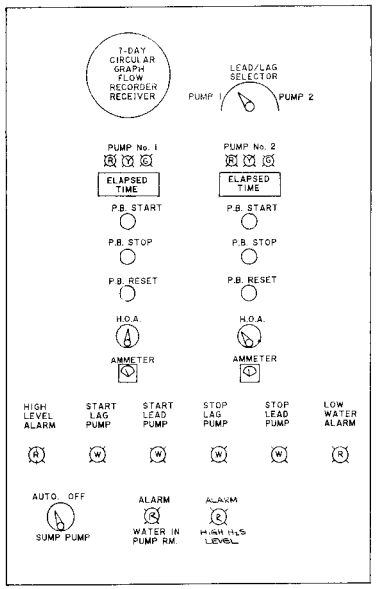


SUMP LEVEL ALARM SWITCH



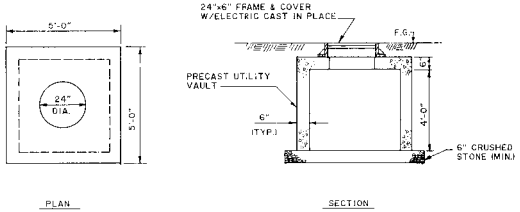
GENERATOR ON SIGNAL

MISC. CONTROL SCHEMATICS



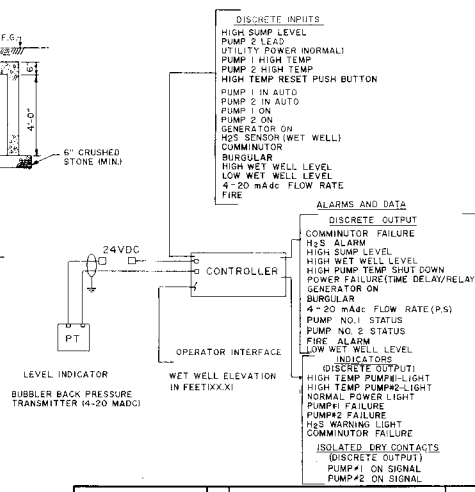
CONTROL PANEL

NOT TO SCALE



TYPICAL ELECTRICAL MANHOLE

NO SCALE



CONTROL ONE LINE DIAGRAM

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	DT	9/94	JEC	BHJ	BHJ	9/94
	ADD DECHLOR FACILITY ALARMS					
1	DRT	3/94	BHJ	BHJ	BHJ	3/94
	REVISE CONTROL ONE LINE DIAGRAM					
0	RG	1/89	JDE	RG	JAH	1/89
	ISSUED FOR APPROVAL					

PROJECT SUPERVISOR: John B. Hagan — APPROVED

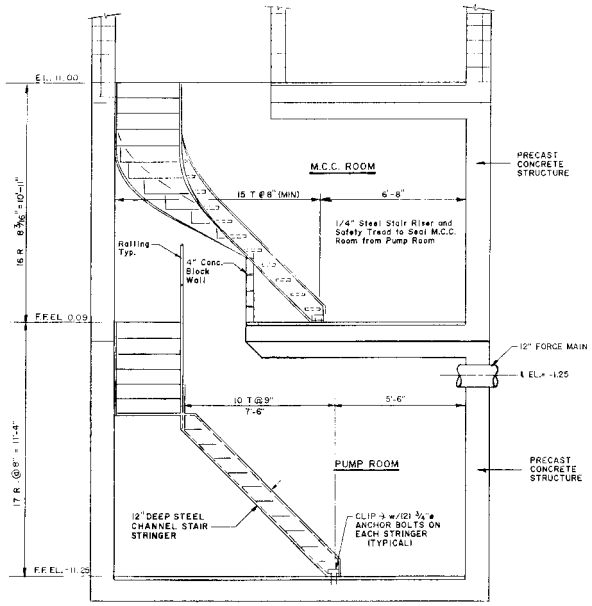
TOWN OF SEABROOK, NEW HAMPSHIRE

ROUTE 286 PUMP STATION

ELECTRICAL DETAILS & GENERAL NOTES

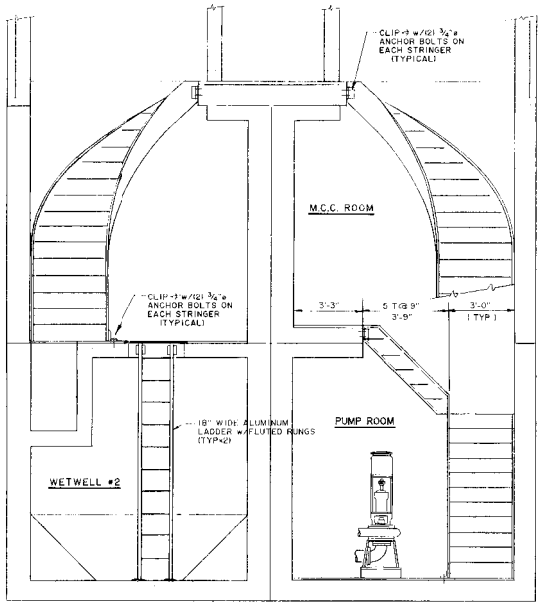
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 8 OF 28


EL. 11.00
M.C.C. ROOM
15 T @ 8" (MIN)
6'-8"
PRECAST CONCRETE STRUCTURE
1/4" Steel Stair Riser and Safety Tread to Seal M.C.C. Room from Pump Room
Railing Typ.
4" Conc. Block Wall
16 R @ 8 3/16" = 10'-1"
F.F.EL. 0.09
12" FORCE MAIN
℄ EL. = -1.25
10 T @ 9"
7'-6"
5'-6"
17 R @ 8" = 11'-4"
PUMP ROOM
PRECAST CONCRETE STRUCTURE
12" DEEP STEEL CHANNEL STAIR STRINGER
CLIP ∠ w/(2) 3/4"ø ANCHOR BOLTS ON EACH STRINGER (TYPICAL)
F.F.EL. -11.25

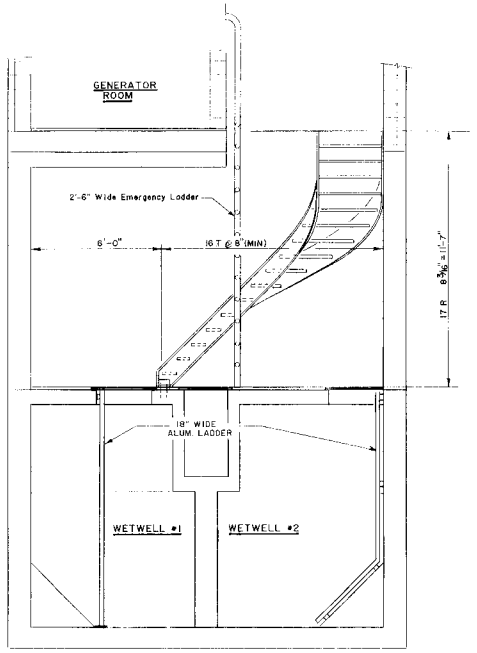
SECTION THRU STAIRS

3/8" = 1'-0"


CLIP ∠ w/(2) 3/4"ø ANCHOR BOLTS ON EACH STRINGER (TYPICAL)
M.C.C. ROOM
CLIP ∠ w/(2) 3/4"ø ANCHOR BOLTS ON EACH STRINGER (TYPICAL)
3'-3"
5 T @ 9"
3'-9"
3'-0" (TYP.)
18" WIDE ALUMINUM LADDER w/FLUTED RUNGS (TYP.)
PUMP ROOM
WETWELL #2

SECTION THRU STAIRS

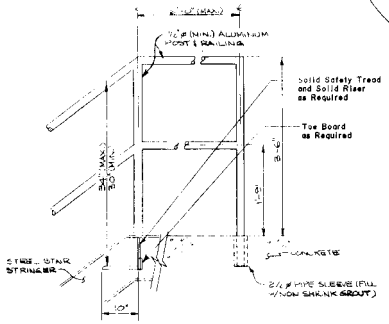
3/8" = 1'-0"



SECTION THRU STAIRS

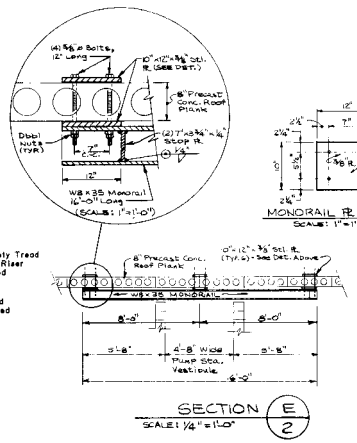
3/8" = 1'-0"

NOTE:
1) ALL RAILINGS SHALL BE WELDED ALUMINUM, GROUND SMOOTH w/ 4 COATS MIL (HACRYLIC) LACQUER
2) RAILING AROUND OPENINGS SHALL BE 42" IN HEIGHT



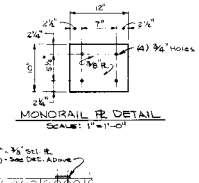
STAIR RAILING DETAILS

NO SCALE



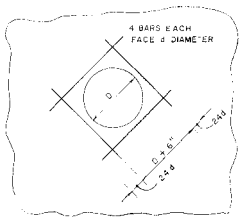
SECTION E/2

SCALE: 1/4" = 1'-0"



MONORAIL PL DETAIL

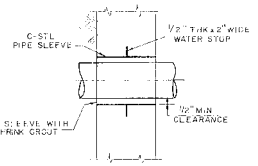
SCALE: 1" = 1'-0"



NOTE: d = 1 SIZE LARGER THAN LARGEST BAR IN NORMAL SURROUNDING STEEL

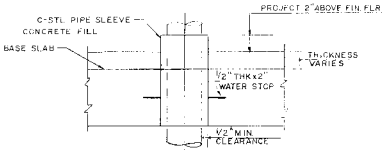
ADDITIONAL REINFORCING AT WALL OPENINGS 8" DIA. AND LARGER

NO SCALE



TYPICAL WALL PENETRATION

NO SCALE



TYPICAL INTERIOR FLOOR PENETRATION

NO SCALE

NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	GEN. REVISIONS				SLJ	12/92
	SB	2/92	MM	BHJ		
2	REVISED FLR. ELEV.				BHJ	8/91
	JAH	8/91	JOE	JAH		
1	GENERAL REVISIONS				JAH	5/90
	WM	5/90	JOE			
0	ISSUED FOR APPROVAL				JAH	1/89
	RG	1/89	JOE	RG		

PROJECT SUPERVISOR: John H. Haynes

APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

ROUTE 286 PUMP STATION

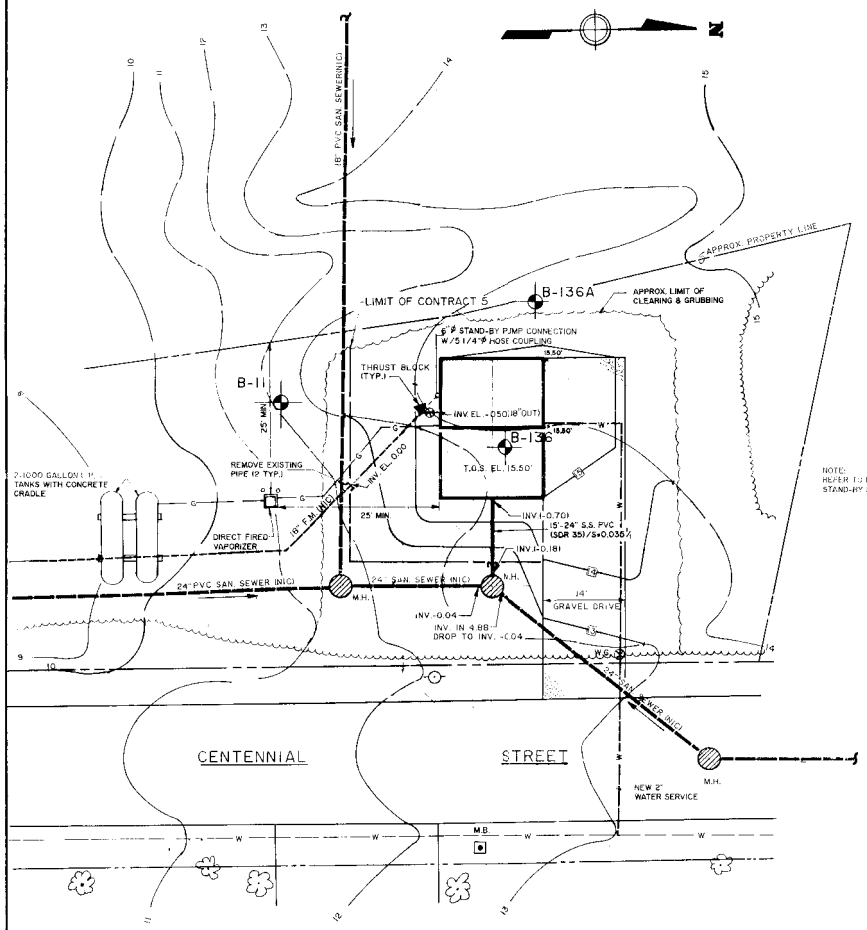
MISC. DETAILS

Jones & Beach / Stearns & Wheler

JOINT VENTURE – CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

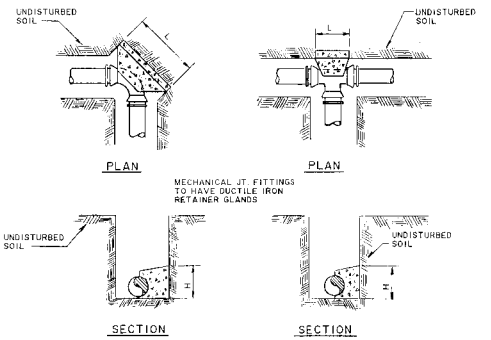
JOB NO. 8704/1444 CONTRACT NO. V SHEET 9 OF 28



NOTE:
REFER TO DETAIL 2 OF 11 SHEET FOR TYPICAL STAND-BY PUMP CONNECTION.

SITE PLAN OF CENTENNIAL ST. PUMP STATION

SCALE: 1" = 10'



THRUST BLOCK DETAILS

NO SCALE

CONCRETE ANCHOR DIMENSIONS

BENDS & TEES - 250 P.S.I.

PIPE SIZE (INCHES)	TEE OR TAP SLEEVE H	TEE OR TAP SLEEVE L	ALL BENDS H	ALL BENDS L
6"	1'-6"	2'-6"	2'-0"	2'-6"
8"	1'-6"	3'-6"	2'-6"	3'-6"
10"	2'-6"	3'-6"	3'-0"	4'-6"
12"	3'-6"	3'-6"	3'-6"	5'-0"
16"	4'-0"	5'-0"	4'-6"	6'-6"
18"	5'-0"	5'-6"	5'-6"	7'-0"

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
5	RELOCATE GAS TANK & VAPORISER	WK	8/95	JEC	BHJ	BHJ	8/95
4	ADD GAS TANKS & VAPORISER	WK	8/95	JEC	BHJ	BHJ	8/95
3	ADD INV. EL. 18" F.M.	WK	1/95	JEC	BHJ	BHJ	1/95
2	ADD STAND-BY PUMP CONNECTION	JAH	5/91		JAH	BHJ	5/91
1	SITE PLAN REVISED	WM	5/90	JOE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	1/89	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK / CENTENNIAL STREET PUMP STATION

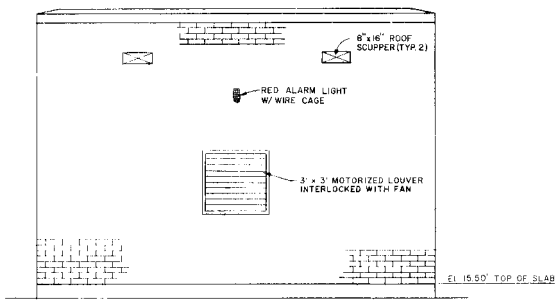
SITE PLAN

Jones & Beach / Stearns & Wheler

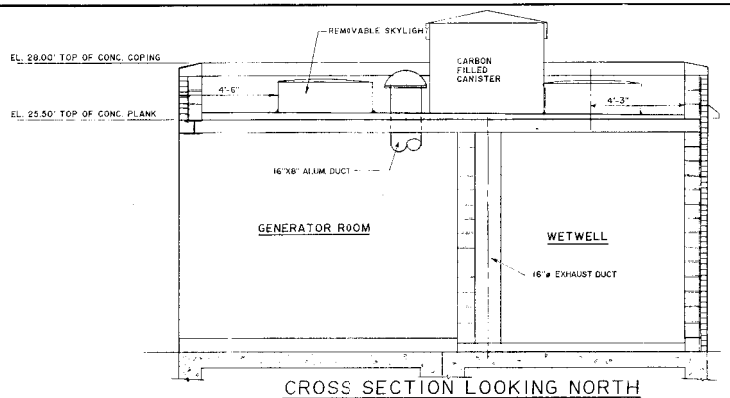
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

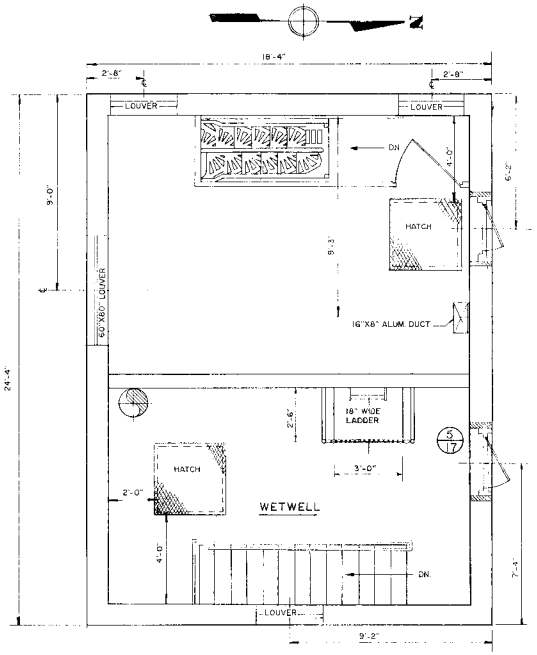
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 10 OF 28



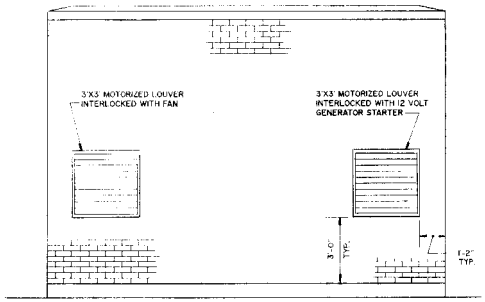
EAST ELEVATION
3/8"=1'-0"



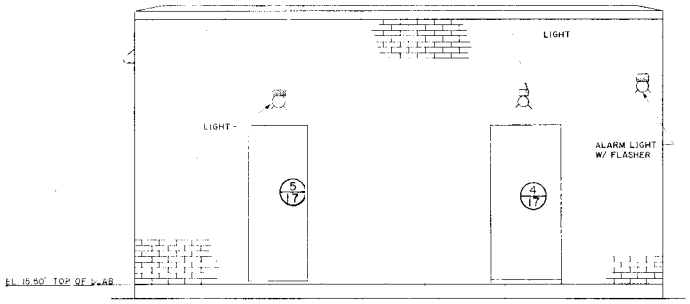
CROSS SECTION LOOKING NORTH
3/8"=1'-0"



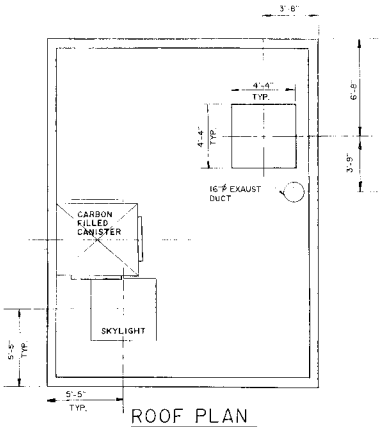
PLAN
3/8"=1'-0"


3'X5' MOTORIZED LOUVER INTERLOCKED WITH FAN
3'X3' MOTORIZED LOUVER INTERLOCKED WITH 12 VOLT GENERATOR STARTER
3'-0" TYP.
1'-2" TYP.

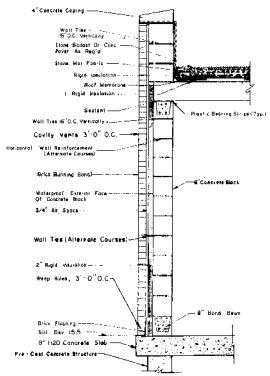
WEST ELEVATION
3/8"=1'-0"



NORTH ELEVATION
3/8"=1'-0"



ROOF PLAN
1/4"=1'-0"



EXTERIOR WALL SECTION
1/2" = 1'-0"

NOTE:

1. ROOF SHALL BE DESIGNED TO SUPPORT 100 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD PLUS A SUPERIMPOSED POINT LOAD OF ABOUT 4000 POUNDS FOR THE SPENT CARBON CANISTER
2. FLOOR(S) SHALL BE DESIGNED TO SUPPORT 300 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
3. THE CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
6	KJL	03/96	BHJ		BHJ	03/96
	GENERAL REVISIONS					
5	WK	8/95	JEC	BHJ	BHJ	8/95
4	ADDED EXTERIOR WALL SECTION,GEN.REV.					
	DT	9/94	BHJ	BHJ	BHJ	9/94
3	GEN. REVISIONS					
	GD	2/92	WM	BHJ	BHJ	12/92
2	GENERAL REVISIONS					
	WM	6/92	RBJ		BHJ	6/92
1	GENERAL REVISIONS					
	WM	5/90	JOE		JAH	5/90
0	ISSUED FOR APPROVAL					
	RG	1/89	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK/CENTENNIAL STREET PUMP STATION

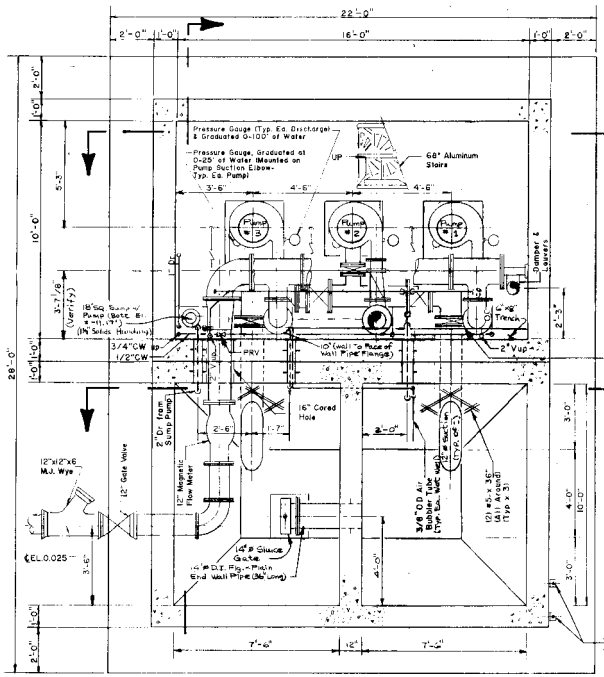
ARCHITECTURAL

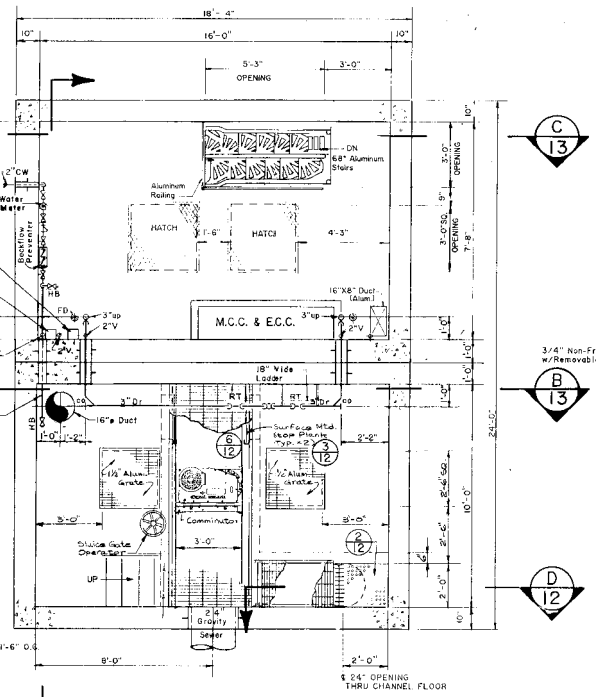
PLANS & ELEVATIONS

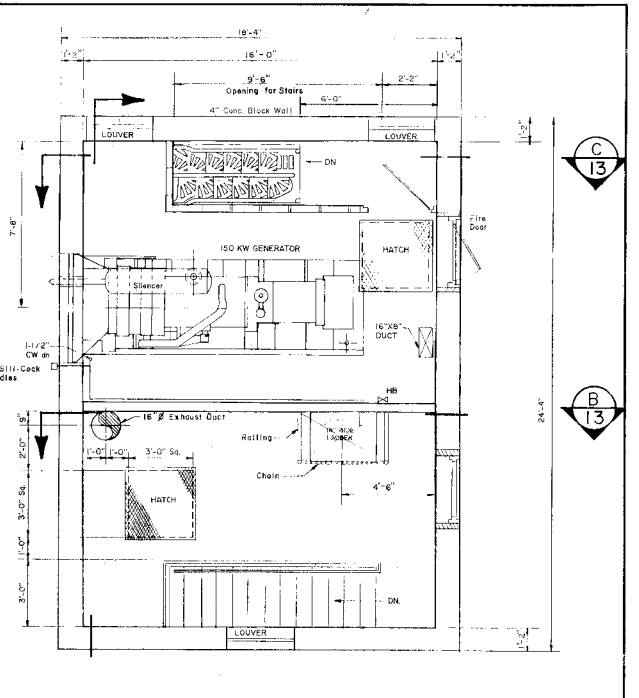
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

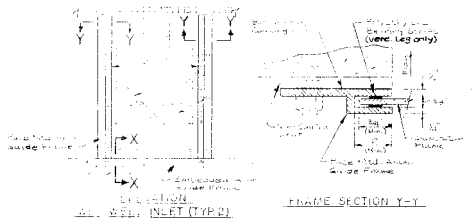
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 11 OF 28

H. SULLIVAN, INC. 508387

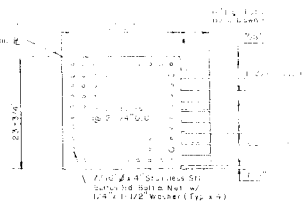

Pressure Gauge (Typ. Ea. Discharge & Graduated 0-100' of Water
Pressure Gauge, Graduated at 0-25' of Water Mounted on Pump Suction Elbow-Typ. Ea. Pump
68" Aluminum Stairs
Pump #1
Pump #2
Pump #3
Hatch
Louver & Louvers
16" Cored Hole
12" Gate Valve
2" Magnetic Flow Meter
2 Dr. Trash Sump Pump
12"x12"x6" M.J. Wye
14"ø Sluice Gate
16"ø D.I. Fig.-Main End Wall Pipe (36" Long)
4"x4"x5/8" Lg. Galvanized Clip Angles w/3/4"ø Anchor Bolts @ 1'-6" O.C. (Typical All Around)
(EL. -10.50')
PLAN-LOWER LEVEL
3/8"=1'-0"



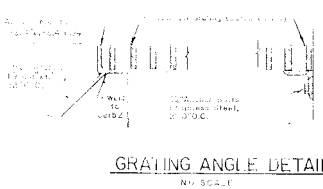




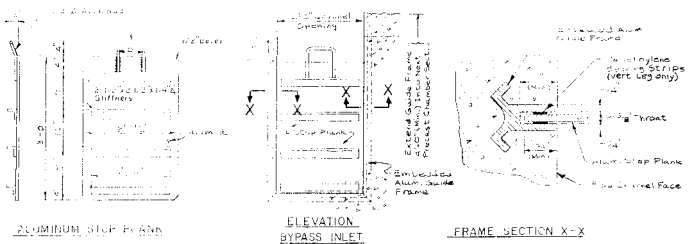
ALUMINUM STOP PLANK & FRAME DETAILS
NO SCALE



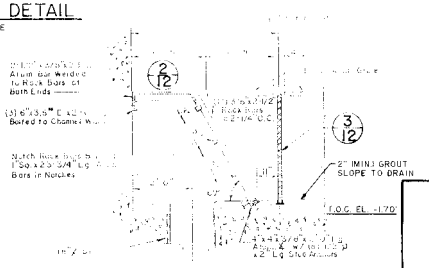
GRATING ANGLE DETAIL
NO SCALE



DRAIN PLATE DETAIL
NO SCALE



ALUMINUM STOP PLANK & FRAME DETAILS
NO SCALE



SECTION
NO SCALE

8	RECORD DRAWING					BHJ	03/96
	KJL	03/96	BHJ				
7	GENERAL REVISIONS					BHJ	8/95
	WK	8/95	JEC	BHJ			
6	REVISED GEN. SET					BHJ	9/94
5	GEN. REVISIONS					BHJ	2/92
	BB	12-92	JAH	BHJ			
4	REVISED UPPER LEVEL						
	WM	7/92	RBJ				
	MOVED WET WELL PARTITION & REVISED PUMP SUCT.						
	JOE	11/90					
3	GEN. REVISIONS					JAH	5/90
	WM	5/90	JOE				
2	GEN. REVISIONS					JAH	5/90
	WM	5/90	JOE				
1	GEN. REVISIONS					JAH	1/89
	WM	5/90	JOE				
0	ISSUED FOR APPROVAL					JAH	1/89
	RG	1/89	JOE	RG			
RELEASE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE	

PROJECT SURVEYOR — APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

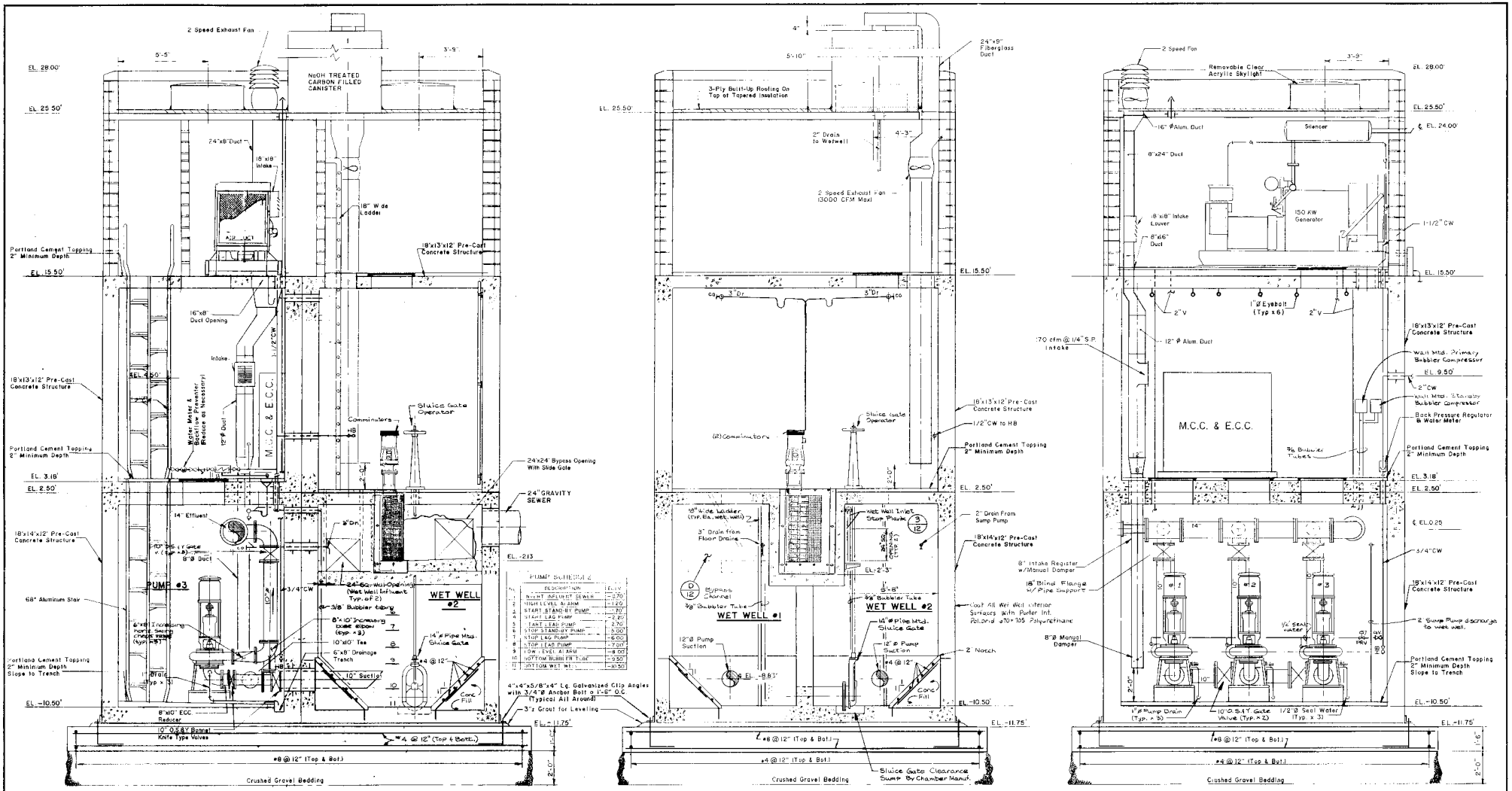
CAINS BROOK/CENTENNIAL ST. PUMP STA.

MECHANICAL
PLANS & DETAIL

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 12 OF 28

SULLIVAN, INC. 868387

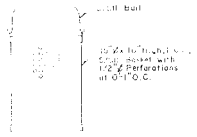


SECTION A/13
3/8"=1'-0"

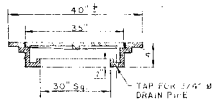
SECTION B/13
3/8"=1'-0"

SECTION C/13
3/8"=1'-0"

NOTE: PUMP STATION SHALL HAVE AN H2S SENSOR INSTALLED IN THE WET WELL AREA. THE CONTRACTOR SHALL PROVIDE THE NECESSARY ALARM CONTACTS IN THE RADIO TELEMETRY SYSTEM AND PROVIDE THE ALARM LIGHTS AS SHOWN IN THE DETAILS & SCHEMATICS ON SHEET 15



DETAIL
SCREENINGS BASKET
NO SCALE



DETAIL
M.H. FRAME & LID
NO SCALE

MECHANICAL NOTES

8	RECORD DRAWING					BHJ	03/96
	K.L.	03/96	BHJ				
	GENERAL REVISIONS					BHJ	8/95
7	WK	8/95	JEC		BHJ		
6	REVISE GEN. SET					BHJ	9/94
5	GEN'L REVISIONS					BHJ	1/94
	WM	12/93		BHJ			
4	GEN'L REVISIONS						
	WM	7/93	JOE				
3	MOVED WET WELL PARTITION / REVISED PUMP SYST.						
	JOE	1/93					
2	GEN. REVISIONS					JAH	9/90
	WM	9/90	JOE				
1	REV. ELEVATIONS					JAH	5/90
	WM	5/90	JOE				
0	ISSUED FOR APPROVAL						
	RG	1/89	JOE	RG		JAH	1/89
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE	

PROJECT SUPERVISOR: John A. Hughes
APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

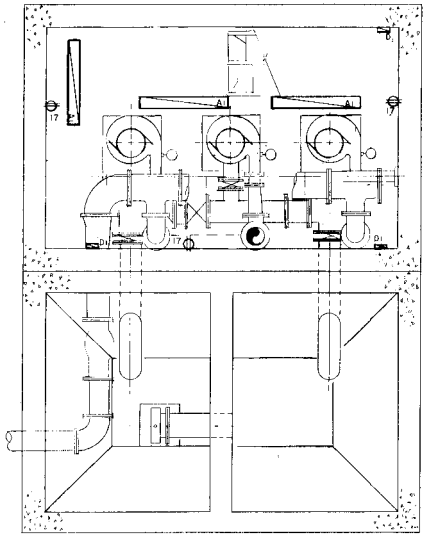
CAINS BROOK/CENTENNIAL STREET PUMP STATION

MECHANICAL
SECTIONS & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 13 OF 28

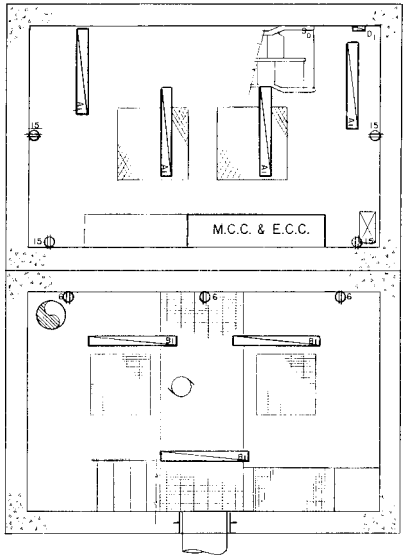
H.N. SULLIVAN, INC. 800387



(EL.-10.50')

PLAN-LOWER LEVEL

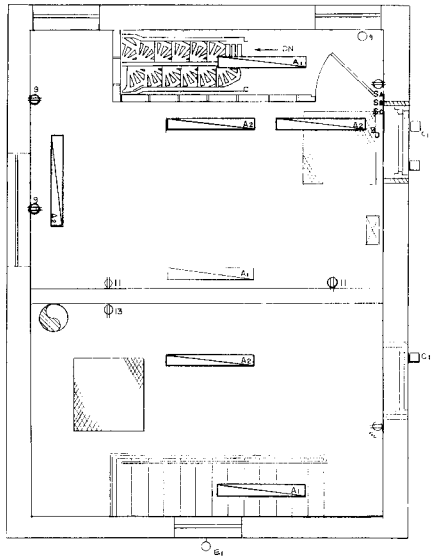
3/8"=1'-0"



(EL.+2.50')

PLAN-MID LEVEL

3/8"=1'-0"



(EL.15.50')

PLAN-UPPER LEVEL

3/8"=1'-0"

LABEL	SWITCH	LOCATION LEVEL	LOCATION AREA	QTY	TYPE
A1	Sa	UPPER LEVEL (EL.15.50)	GENERATOR ROOM	2	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
A2	Sa		GENERATOR ROOM	3	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
C1	—		OUTSIDE	2	35 WATT H.P.S.,WALL MOUNT,WEATHER PROOF,VANDAL & CORROSION RESISTANT, PHOTOELEC. ACTUATED
A1	Sa	MID LEVEL (EL.+2.50)	MOTOR CONTROL	4	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
D1	Sa		STAIRWELL	1	35 WATT H.P.S., WALL MOUNTED, MOISTURE & CORROSION RESISTANT
B1	Sc		WET WELL	3	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED EXPLOSION PROOF, CORROSION RESISTANT
A1	Sb	LOWER LEVEL (EL.-10.50')	PUMP ROOM	3	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
D1	Sb		STAIRWELL	1	35 WATT H.P.S., WALL MOUNTED, MOISTURE & CORROSION RESISTANT
E1	AUTOMATIC	UPPER LEVEL	OUTSIDE	1	1-100 WATT RSD LAMP, WALL MOUNTED, WEATHER PROOF, VANDAL & CORROSION RESISTANT
A1	Se	UPPER LEVEL (EL.15.50)	STORAGE ROOM	1	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT.
A2	Se		STORAGE ROOM	1	2-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT.

RECORD DRAWING

4	RECORD DRAWING	KJL	03/96	BHJ		BHJ	03/96
3	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
2	GENERAL REVISIONS	DT	7/94	BHJ	BHJ	BHJ	9/94
1	REVISED LIGHTING	WM	7/92	RBJ	WM	JAH	7/92
0	ISSUED FOR APPROVAL	RG	1/89	JOE	RG	JAH	1/89
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: [illegible] APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK/CENTENNIAL ST. PUMP STA.

ELECTRICAL

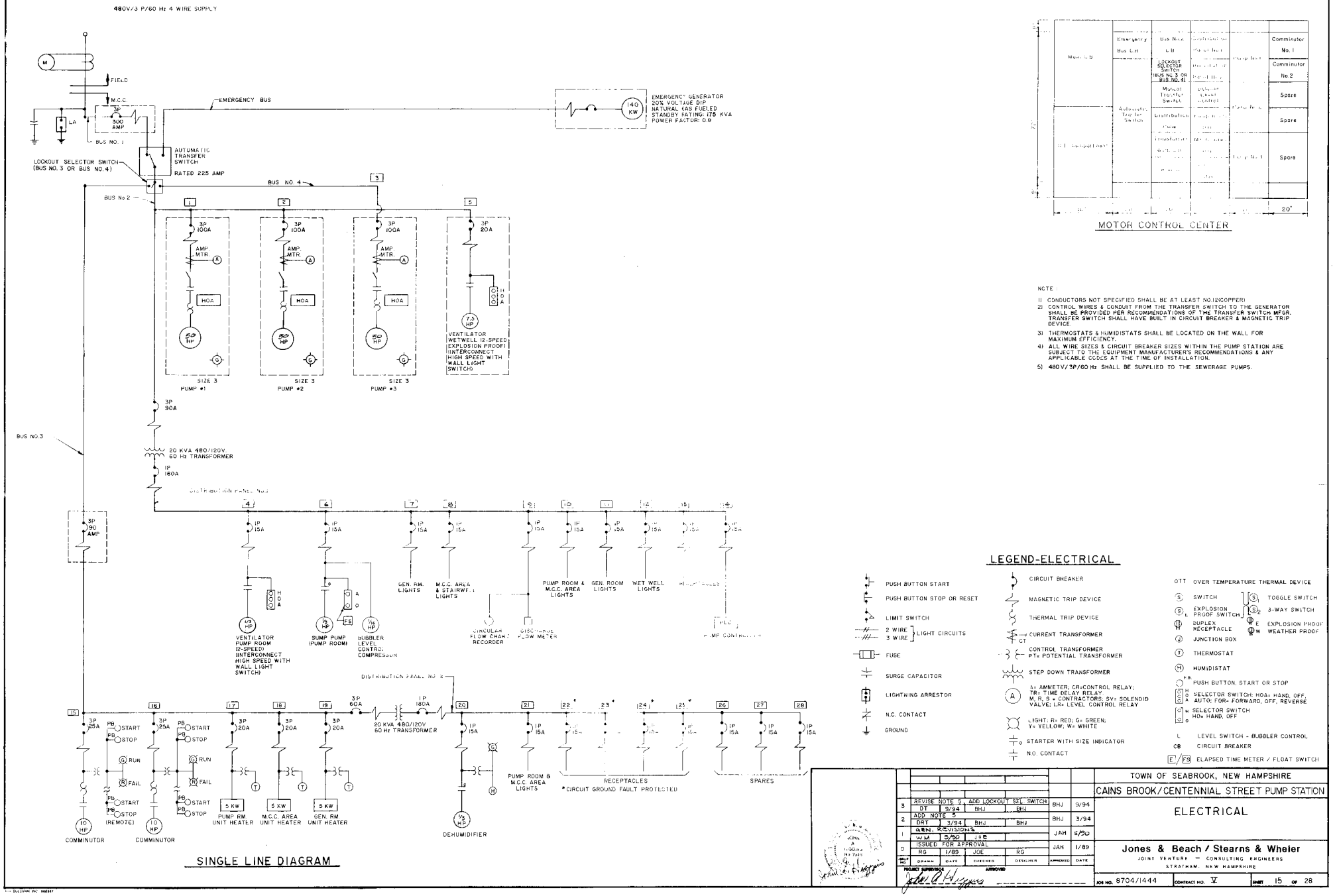
PLANS & DETAIL

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 14 OF 28



SINGLE LINE DIAGRAM

MOTOR CONTROL CENTER

NOTE :

1) CONDUCTORS NOT SPECIFIED SHALL BE AT LEAST NO.12(COPPER).
2) CONTROL WIRES & CONDUIT FROM THE TRANSFER SWITCH TO THE GENERATOR SHALL BE PROVIDED PER RECOMMENDATIONS OF THE TRANSFER SWITCH MFGR. TRANSFER SWITCH SHALL HAVE BUILT IN CIRCUIT BREAKER & MAGNETIC TRIP DEVICE.
3) THERMOSTATS & HUMIDISTATS SHALL BE LOCATED ON THE WALL FOR MAXIMUM EFFICIENCY.
4) ALL WIRE SIZES & CIRCUIT BREAKER SIZES WITHIN THE PUMP STATION ARE SUBJECT TO THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS & ANY APPLICABLE CODES AT THE TIME OF INSTALLATION.
5) 480V/3P/60 Hz SHALL BE SUPPLIED TO THE SEWERAGE PUMPS.

LEGEND-ELECTRICAL

- PUSH BUTTON START
- PUSH BUTTON STOP OR RESET
- LIMIT SWITCH
- 2 WIRE / 3 WIRE } LIGHT CIRCUITS
- FUSE
- SURGE CAPACITOR
- LIGHTNING ARRESTOR
- N.C. CONTACT
- GROUND
- CIRCUIT BREAKER
- MAGNETIC TRIP DEVICE
- THERMAL TRIP DEVICE
- CT CURRENT TRANSFORMER
- CONTROL TRANSFORMER / PT= POTENTIAL TRANSFORMER
- STEP DOWN TRANSFORMER
- (A) A= AMMETER; CR=CONTROL RELAY; TR= TIME DELAY RELAY M, R, S = CONTACTORS; SV= SOLENOID VALVE; LR= LEVEL CONTROL RELAY
- LIGHT; R= RED; G= GREEN; Y= YELLOW; W= WHITE
- STARTER WITH SIZE INDICATOR
- N.O. CONTACT
- OTT OVER TEMPERATURE THERMAL DEVICE
- (S) SWITCH; (S)L EXPLOSION PROOF SWITCH; (S)1, (S)2 3-WAY SWITCH; TOGGLE SWITCH
- DUPLEX RECEPTACLE; E EXPLOSION PROOF; W WEATHER PROOF
- (J) JUNCTION BOX
- (T) THERMOSTAT
- (H) HUMIDISTAT
- PB PUSH BUTTON, START OR STOP
- SELECTOR SWITCH; HOA= HAND, OFF, AUTO; FOR= FORWARD, OFF, REVERSE
- SELECTOR SWITCH HO= HAND, OFF
- L LEVEL SWITCH - BUBBLER CONTROL
- CB CIRCUIT BREAKER
- E/FS ELAPSED TIME METER / FLOAT SWITCH

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	REVISE NOTE 5, ADD LOCKOUT SEL. SWITCH	DT	9/94	BHJ	BHJ	BHJ	9/94
2	ADD NOTE 5	DRT	3/94	BHJ	BHJ	BHJ	3/94
1	GEN. REVISIONS	WH	5/90	JAE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	1/89	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: John A. Haynes — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK/CENTENNIAL STREET PUMP STATION

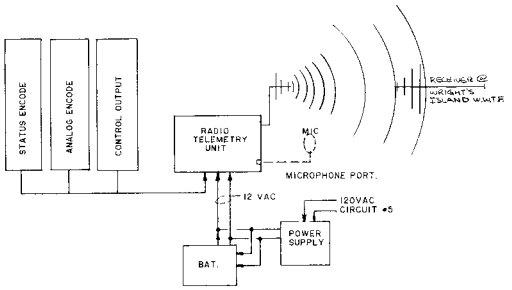
ELECTRICAL

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

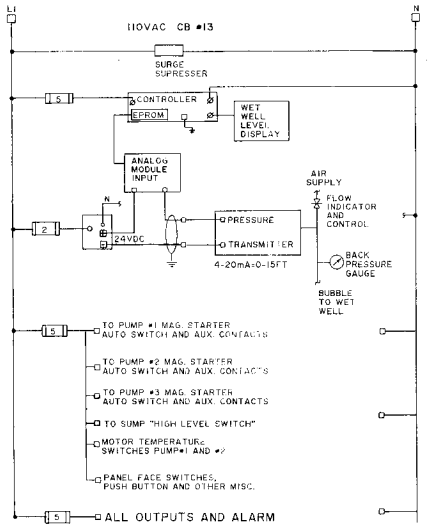
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 15 OF 28

GENERAL NOTES

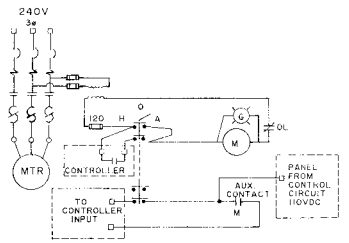
1) SUBSURFACE UTILITY LOCATIONS ARE BASED ON LIMITED INVESTIGATIONS OF EXISTING RECORDS AND ARE NOT WARRANTED TO BE CORRECT
2) THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AT THE TIME OF CONSTRUCTION WITH THE VARIOUS UTILITY COMPANIES INVOLVED OR PRESUMED TO BE INVOLVED, AND MAKE TEST PIT EXCAVATIONS AS REQUIRED OR DIRECTED
3) ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD & UNDERGROUND UTILITIES CROSSING OR NEAR TRENCH EXCAVATIONS OR RELATED WORK, SHALL BE PROTECTED & SUPPORTED BY THE CONTRACTOR THROUGH OUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH FACILITIES OR FEATURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
4) ALL WORK TO BE IN CONFORMANCE WITH TOWN OF SEABROOK STANDARDS FOR WATER, SEWER AND DRAINAGE CONSTRUCTION (COPIES AVAILABLE AT THE TOWN OFFICES), WHERE THERE ARE CONFLICTS, STATE STANDARDS SHALL PREDOMINATE.
5) ALL WATER MAIN REPAIRS WILL BE PERFORMED BY THE TOWN OF SEABROOK AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
6) WHERE WORK REQUIRES RELOCATION, REPAIR OR CONNECTION TO EXISTING GAS LINES, THE WORK SHALL BE PERFORMED BY THE GAS COMPANY & SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
7) WHERE DAMAGE IS INCURRED ON TELEPHONE CABLES, EITHER BURIED OR OVERHEAD, REPAIRS SHALL BE MADE BY THE TELEPHONE COMPANY AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
8) WHERE DAMAGE IS INCURRED ON BURIED OR OVERHEAD ELECTRIC WIRES, REPAIRS SHALL BE MADE BY THE ELECTRIC COMPANY & PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.



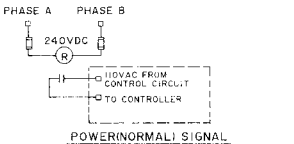
REMOTE TRANSMITTER/RECEIVER



CONTROL-POWER CIRCUIT

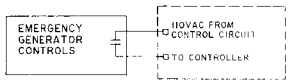


TYPICAL OF EACH PUMP



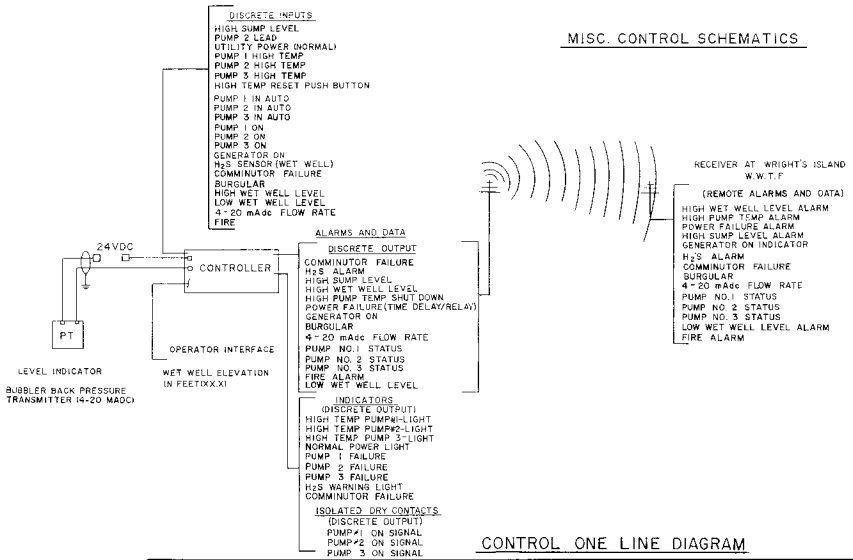
POWER(NORMAL) SIGNAL

SUMP LEVEL ALARM SWITCH

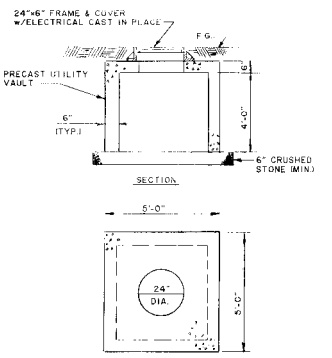


GENERATOR ON SIGNAL

MISC. CONTROL SCHEMATICS

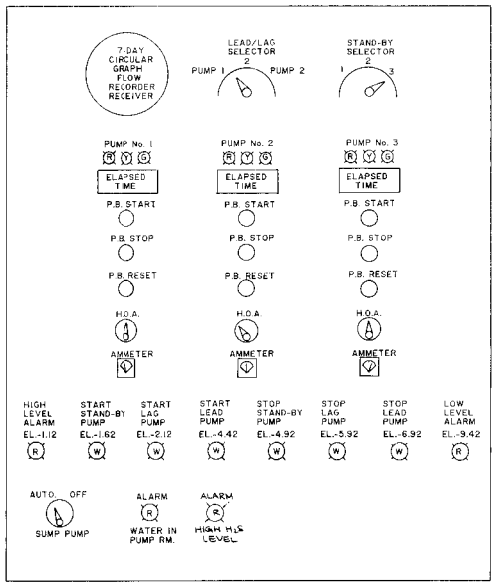


CONTROL ONE LINE DIAGRAM



TYPICAL ELECTRICAL MANHOLE

NO SCALE



CONTROL PANEL

NOT TO SCALE

NO.	REVISE CONTROL ONE LINE DIAGRAM				BHJ	3/94
	DRT	3/94	BHJ	BHJ		
P	ISSUED FOR APPROVAL				JAH	1/89
	RG	1/89	JOE	RG		
	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK / CENTENNIAL STREET PUMP STATION

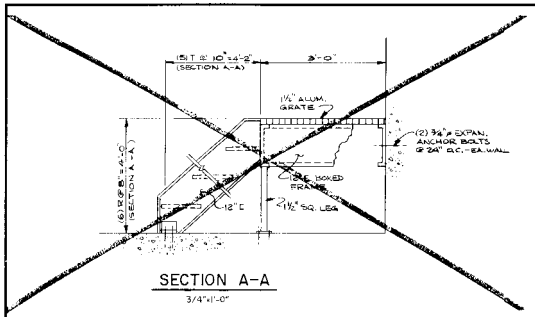
ELECTRICAL DETAILS & GENERAL NOTES

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

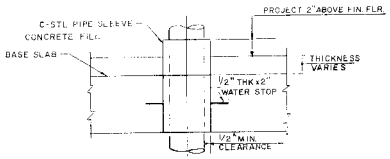
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 16 OF 28



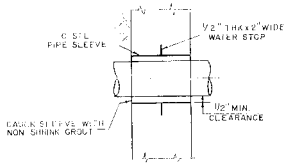
SECTION A-A

3/4"=1'-0"



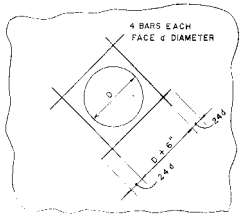
TYPICAL INTERIOR FLOOR PENETRATION

NO SCALE



TYPICAL WALL PENETRATION

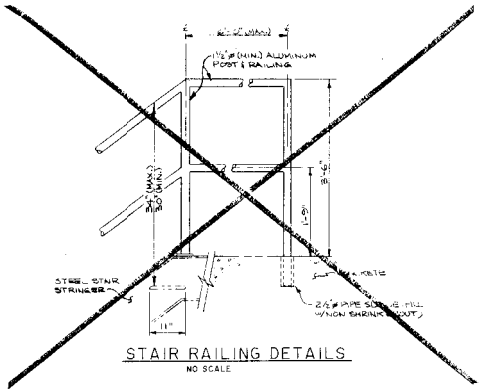
NO SCALE



NOTE: d = 1 SIZE LARGER THAN LARGEST BAR IN NORMAL SURROUNDING STEEL

ADDITIONAL REINFORCING AT WALL OPENINGS 8" DIA. AND LARGER

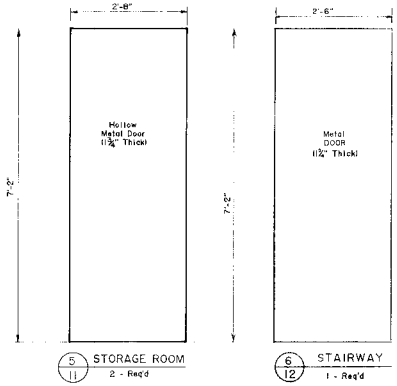
NO SCALE



STAIR RAILING DETAILS

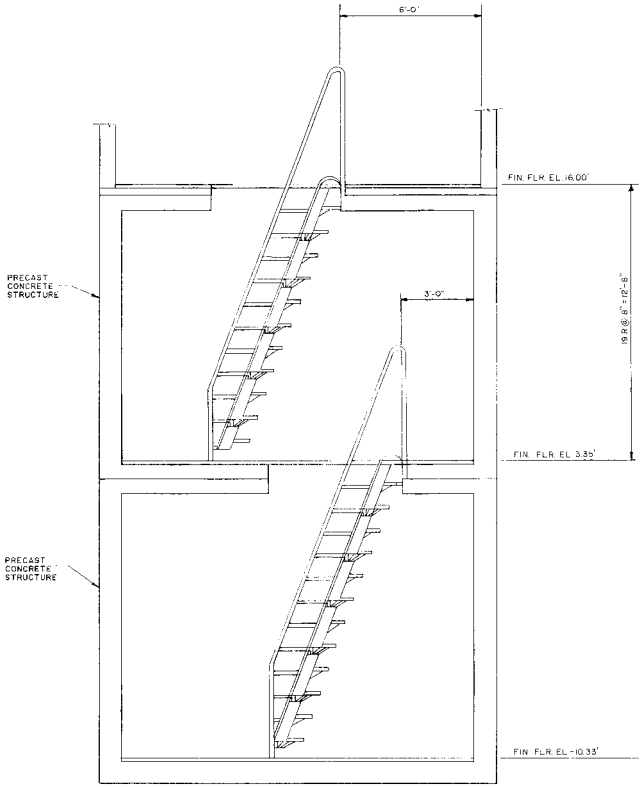
NO SCALE

NOTE:
1) ALL RAILINGS SHALL BE WELDED ALUMINUM, GROUND SMOOTH w/ 4 COATS METHACRYLIC LACQUER
2) RAILING AROUND OPENINGS SHALL BE 42" IN HEIGHT.



DOOR DETAILS

NO SCALE



SECTION THRU STAIRS

3/8"=1'-0"

RECORD DRAWING

5	RECORD DRAWING	KJL	03/96	BHJ		BHJ	03/96
4	REVISED DOOR DETAIL	DT	9/17	JEC	BHJ	BHJ	9/94
3	GEN. REVISIONS	SD	2/192	WM	BHJ	BHJ	2/92
2	GEN. REVISIONS	WM	7/92	RBJ	WM		
1	GEN. REVISIONS	WM	5/90	JGE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	1/89	JGE	RG	JAH	1/89
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: John A. Hayes — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK/CENTENNIAL ST. PUMP STA.

MISC. DETAILS

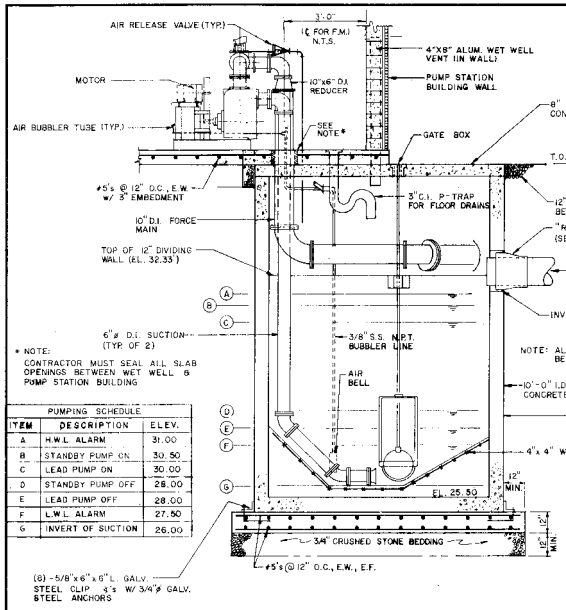
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 17 OF 28

H.H. SULLIVAN, INC. 506397


AIR RELEASE VALVE (TYP.)
3'-0" (℄ FOR F.M.) N.T.S.
4'X8' ALUM. WET WELL VENT (IN WALL)
MOTOR
10"x6" D.I. REDUCER
PUMP STATION BUILDING WALL
AIR BUBBLER TUBE (TYP.)
SEE NOTE*
8" THICK REINFORCED CONCRETE SLAB
GATE BOX
T.O.S. 38.50
#5's @ 12" O.C., E.W. w/ 3" EMBEDMENT
3" C.I. P-TRAP FOR FLOOR DRAINS
12" THICK CRUSHED STONE BEDDING UNDER SLAB
10" D.I. FORCE MAIN
"RUBBER LIKE" BOOT (SEE SHEET 23)
TOP OF 12" DIVIDING WALL (EL. 32.33)
18" P.V.C. SAN. SEWER INFLUENT (SDR 35)
INV. 31.49
6"ø D.I. SUCTION (TYP. OF 2)
3/8" S.S. N.P.T. BUBBLER LINE
NOTE: ALL 90° BENDS ARE TO BE LONG RADIUS ELBOWS
AIR BELL
10'-0" I.D. PRECAST CONCRETE WET WELL
COAT ALL WET WELL SURFACES: INTERIOR: PORTER INT. POLIBRID 670 + 705 POLYURETHANE EXTERIOR: PORTER INT. 7080 TARSET EPOXY; OR APPROVED EQUAL
4"x 4" W.W.M.
12" MIN.
EL. 25.50
12" MIN.
3/4" CRUSHED STONE BEDDING
#5's@12" O.C., E.W., E.F.
(8) - 5/8"x 6" x 6" L. GALV. STEEL CLIP ∠'s W/ 3/4"ø GALV. STEEL ANCHORS

* NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	31.00
B	STANDBY PUMP ON	30.50
C	LEAD PUMP ON	30.00
D	STANDBY PUMP OFF	28.00
E	LEAD PUMP OFF	28.00
F	L.W.L. ALARM	27.50
G	INVERT OF SUCTION	26.00

SECTION A-A
NO SCALE

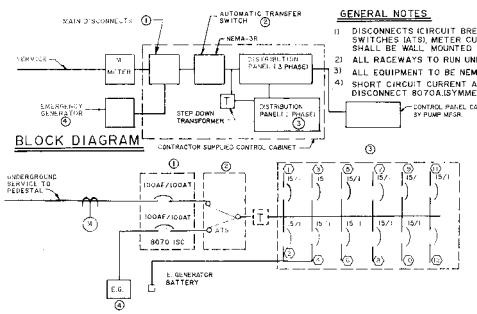
PUMP STATION DESIGN

CONDITIONS OF SERVICE:
800 G.P.M. @ 56.70 FT. TDH

PUMPING EQUIPMENT:
2-GORMAN RUPP 25 H.P. PUMPS, MODEL T6A-B
6" x 6" SELF-PRIMING SUCTION LIFT PUMPS
11-3/4" IMPELLER, 1350 R.P.M.
POWER: 480 VOLT/3 PHASE/60 Hz/4 WIRE

PUMP STATION CONTROL EQUIPMENT:

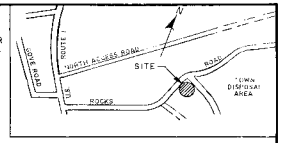
A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotometer
E) Alarm Light & Silencer
F) Reduced Voltage Starting For Motors
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) Automatic Transfer Switch For Switching Power Source From Power Company To Emergency Generator.
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 1Ø, 60Hz, Grounded Duplex Receptacle
O) 115V Alarm Light In Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply
Q) 3KVA Stepdown Transformer



BLOCK DIAGRAM

GENERAL NOTES

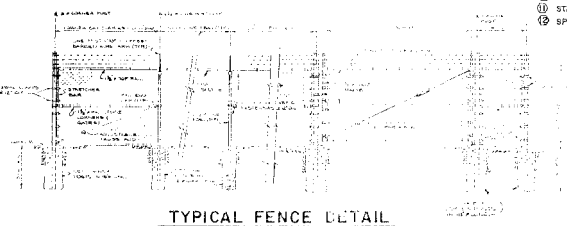
1) DISCONNECTS (CIRCUIT BREAKERS) AUTOMATIC TRANSFER SWITCHES (ATS), METER CUBICLE & DISTRIBUTION PANEL SHALL BE WALL MOUNTED TYPE OR APPROVED EQUAL.
2) ALL RACEWAYS TO RUN UNDERGROUND.
3) ALL EQUIPMENT TO BE NEMA-3R
4) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL)



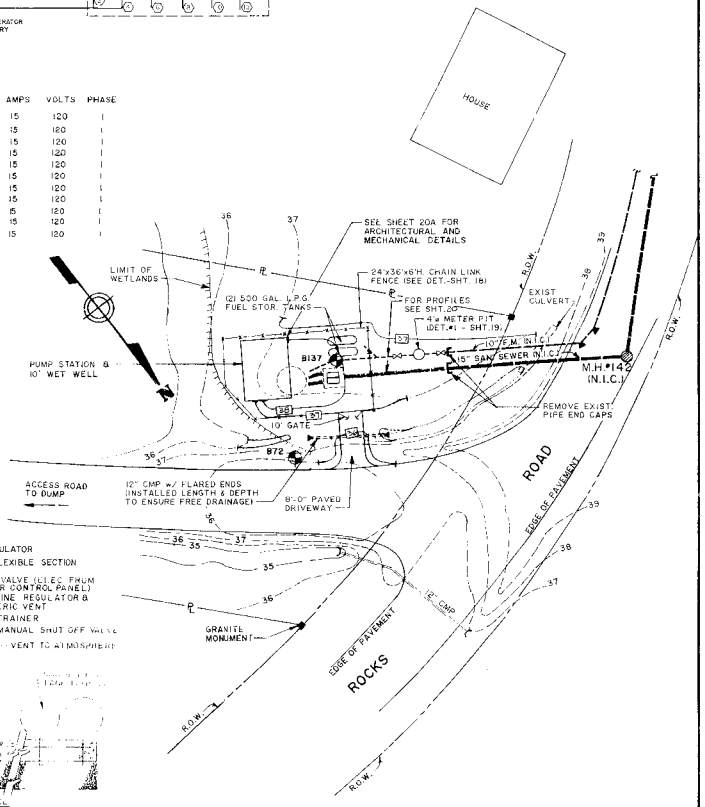
LOCUS PLAN
1" = 400'±

CIRCUITS

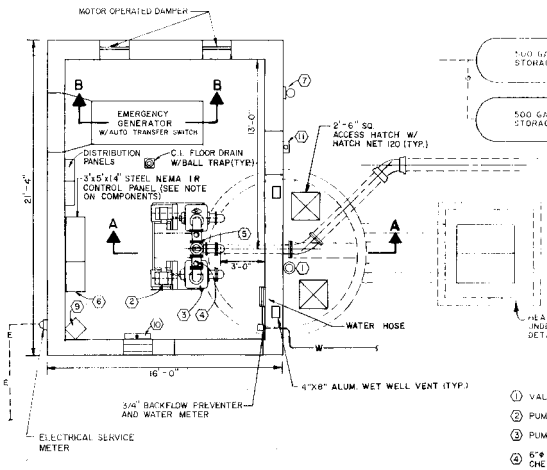
No.	DESCRIPTION	AMPS	VOLTS	PHASE
1	STATION HEATER	15	120	1
2	H_2S MONITOR	15	120	1
3	RECEPTACLE W/ GROUND FAULT	15	120	1
4	GEN. SET BATTERY CHARGER	15	120	1
5	ALARM LIGHTS	15	120	1
6	RADIO TELEMETRY	15	120	1
7	FLOW METER & LAPSE TIME METER	15	120	1
8	STATION VENTILATOR BLOWER	15	120	1
9	HAND HELD LIGHT	15	120	1
10	STATION LIGHTS	15	120	1
11	STATION LIGHTS	15	120	1
12	SPARE			



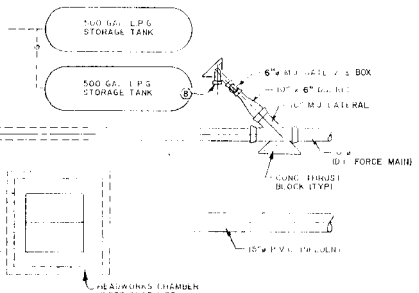
TYPICAL FENCE DETAIL
1/2" SCALE

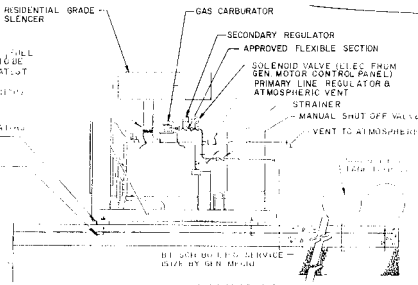


SITE PLAN
1"=20'-0"


MOTOR OPERATED DAMPER
EMERGENCY GENERATOR W/AUTO TRANSFER SWITCH
DISTRIBUTION PANELS
C.I. FLOOR DRAIN W/BALL TRAP(TYP.)
3'x5'x14" STEEL NEMA 1R CONTROL PANEL (SEE NOTE ON COMPONENTS)
2'-6" SQ. ACCESS HATCH W/ HATCH NET 120 (TYP.)
WATER HOSE
4"X8" ALUM. WET WELL VENT (TYP.)
3/4" BACKFLOW PREVENTER AND WATER METER
ELECTRICAL SERVICE METER
16'-0"
21'-4"
12'-0"

PLAN - PUMPING STATION & STANDBY GENERATOR
SCALE: 1/4" = 1'-0"


500 GAL. L.P.G. STORAGE TANK
500 GAL. L.P.G. STORAGE TANK
6"ø MJ GATE V. & BOX
10" x 6" D.I. TEE
6" MJ LATERAL
10" D.I. FORCE MAIN
CONC. THRUST BLOCK (TYP.)
18"ø P.V.C. SAN. SEWER
HEADWORKS (REMOVED UNDER SLAB) SEE DETAIL - SHT. 20


RESIDENTIAL GRADE SILENCER
GAS CARBURATOR
SECONDARY REGULATOR
APPROVED FLEXIBLE SECTION
SOLENOID VALVE (TYP.) (ELEC. FROM GEN. MOTOR CONTROL PANEL)
PRIMARY LINE REGULATOR & ATMOSPHERIC VENT
STRAINER
MANUAL SHUT OFF VALVE
VENT TO ATMOSPHERE
FLEXIBLE COUPLING (TYP.)
PAD TYPE VIBRATION ISOLATORS (QTY. AS REQ'D BY MFGR.)
3/4"ø ANCHOR BOLTS (QTY. AS REQ'D BY MFGR.)
DETAILS OF SERVICE SIZE BY GEN. MFGR.
CONDITIONS OF SERVICE
GENERATOR

SECTION B-B
NO SCALE

65 KW AT 277/480 VOLTS, 3Ø-60 Hz, 105 AMPS.
126 MAX. H.P. AT 1800 R.P.M. 4 CYCLE, 8 CYLINDER, L.P.G. FUELED LIQUID COOLED, EQUIPPED W/ RESIDENTIAL SILENCER, 12V ELECTRIC START W/ BATTERY CHARGER & BLOCK HEATER

PLAN VIEW LEGEND

1. VALVE BOX (CANAL GATE)
2. PUMP MOTOR (TYP. 2)
3. PUMP (TYP. 2)
4. 6"ø FULL FLOW SWING CHECK VALVE (TYP. 2)
5. 6"ø, 3-WAY PLUG VALVE
6. CONTROL PANEL CABINET BY PUMP MFGR.
7. 150 WHPS LIGHT, AUTO ELEC. SWITCH
8. 5 3/4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
9. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
10. FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER

CONTRACTOR SUPPLIED CONTROL PANEL COMPONENTS

1. MAIN DISCONNECT
2. COMMINUTOR PANEL
3. FLOW METER PANEL
4. RADIO ALARM SYSTEM (RTU)
5. 50' WATERPROOF TROUBLE LIGHT
6. 110V ELECTRICAL DUPLEX OUTLET
7. H_2S GAS MONITOR UNIT

NO.	DESCRIPTION	BY	DATE
5	GENERAL REVISIONS WK 4/95 JEC	BHJ	BHJ 4/95
4	PUMP STATION REVISIONS DT 8/94 BHJ	BHJ	BHJ 8/94
3	GENERAL REVISIONS DRT 3/94 BHJ	BHJ	BHJ 3/94
2	GEN. REVISIONS WHA 11/90 JOE		JAH 7/90
1	GEN. REVISIONS WK 8/90 JOE		JAH 9/90
0	ISSUED FOR APPROVAL RG 10/88 JOE	RG	JAH 1/89
	DRAWN DATE CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

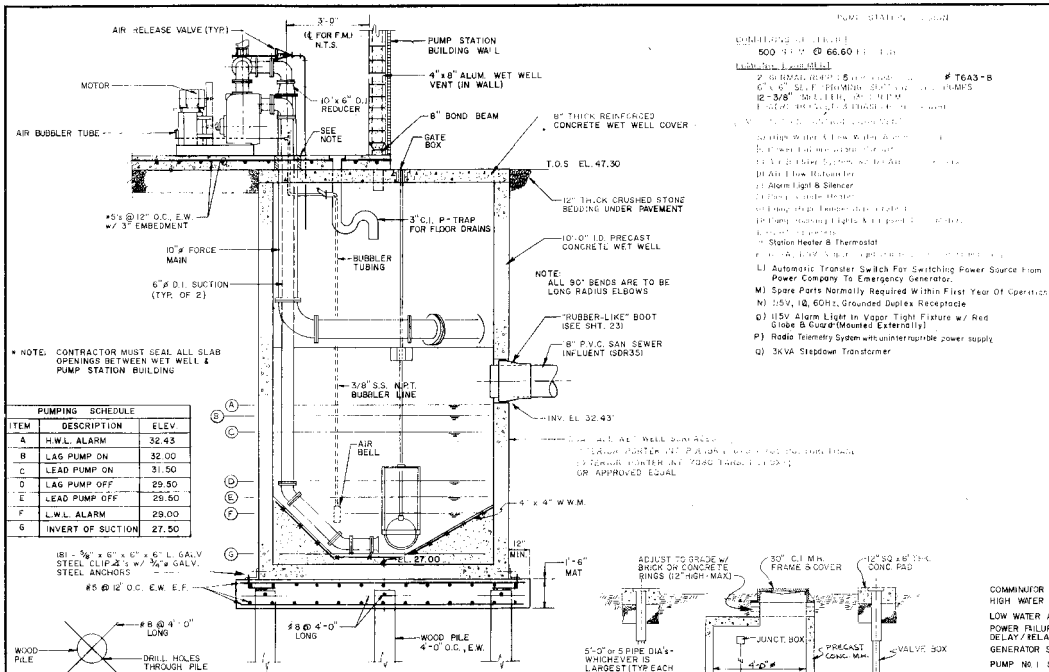
ROCKS ROAD PUMPING STATION

SITE PLAN & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 CONTRACT NO. V SHEET 18 OF 28

N.H. SULLIVAN INC. 886387

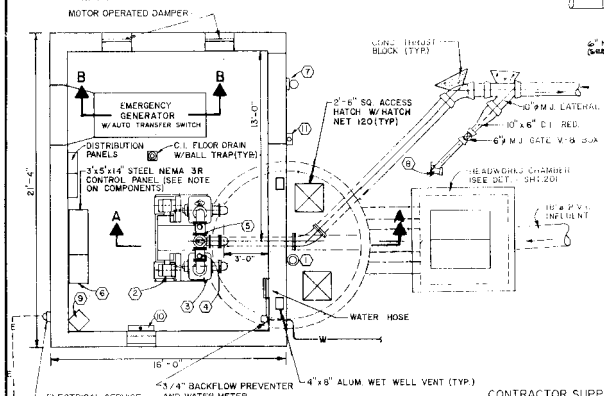

AIR RELEASE VALVE (TYP)
PUMP STATION BUILDING WALL
4"x8" ALUM. WET WELL VENT (IN WALL)
MOTOR
10"x6" D.I. REDUCER
8" BOND BEAM
8" THICK REINFORCED CONCRETE WET WELL COVER
AIR BUBBLER TUBE
SEE NOTE
GATE BOX
T.O.S EL. 47.30
12" THICK CRUSHED STONE BEDDING UNDER PAVEMENT
3"C.I. P-TRAP FOR FLOOR DRAINS
10"ø FORCE MAIN
BUBBLER TUBING
10'-0" I.D. PRECAST CONCRETE WET WELL
NOTE: ALL 90° BENDS ARE TO BE LONG RADIUS ELBOWS
6"ø D.I. SUCTION (TYP. OF 2)
"RUBBER-LIKE" BOOT (SEE SHT. 23)
8" P.V.C. SAN. SEWER INFLUENT (SDR35)
3/8" S.S. NPT. BUBBLER LINE
INV. EL. 32.43'
AIR BELL
4"x4" W.W.M.
12" MIN.
1'-6" MAT
EL. 27.00
WOOD PILE 4'-0" O.C., E.W.
#8 @ 4'-0" LONG
#5 @ 12" O.C. E.W. E.F.
#8 @ 4'-0" LONG
WOOD PILE
DRILL HOLES THROUGH PILE

* NOTE: CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	32.43
B	LAG PUMP ON	32.00
C	LEAD PUMP ON	31.50
D	LAG PUMP OFF	29.50
E	LEAD PUMP OFF	29.50
F	L.W.L. ALARM	29.00
G	INVERT OF SUCTION	27.50

SECTION A-A
NO SCALE

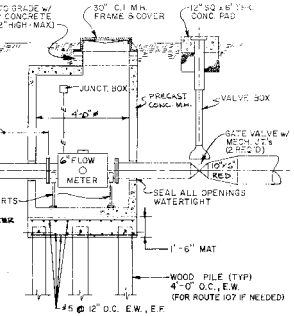
PILE CAP DETAIL
N.T.S.


MOTOR OPERATED DAMPER
EMERGENCY GENERATOR W/ AUTO TRANSFER SWITCH
DISTRIBUTION PANELS
C.I. FLOOR DRAIN W/BALL TRAP(TYP.)
3'x5'x14" STEEL NEMA 3R CONTROL PANEL (SEE NOTE ON COMPONENTS)
CONC. THRUST BLOCK (TYP.)
2'-6" SQ. ACCESS HATCH W/HATCH NET 120(TYP.)
10"ø M.J. LATERAL
10"x6" D.I. RED.
6"ø M.J. GATE V'LV. & BOX
HEADWORKS CHAMBER (SEE DET. SHT. 20)
10"ø P.V.C. EFFLUENT
WATER HOSE
16'-0"
3/4" BACKFLOW PREVENTER AND WATER METER
4"x8" ALUM. WET WELL VENT (TYP.)
ELECTRICAL SERVICE METER

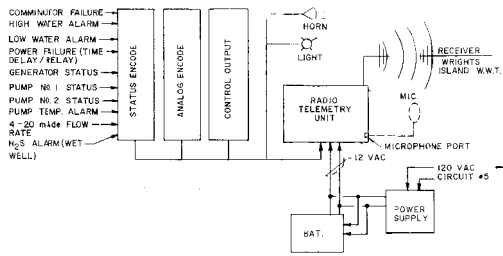
PLAN VIEW LEGEND

1. VALVE BOX (CANAL GATE)
2. PUMP MOTOR (TYP. 2)
3. PUMP (TYP. 2)
4. 6"ø FULL FLOW SWING CHECK VALVE (TYP. 2)
5. 6"ø, 3-WAY PLUG VALVE
6. CONTROL PANEL CABINET BY PUMP MFGR.
7. 150 WHPS LIGHT, AUTO ELEC. SWITCH
8. 5/8" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
9. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
10. FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER ON OPPOSITE SIDE OF ROOM
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER

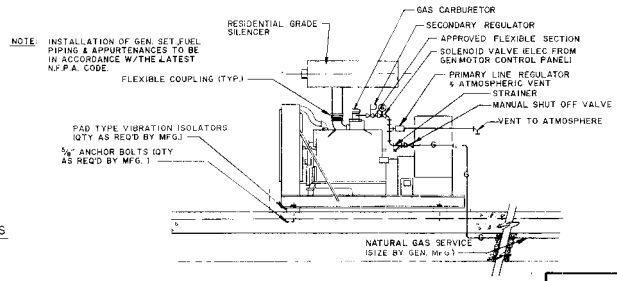
PLAN - PUMPING STATION & STANDBY GENERATOR
SCALE: 1/4" = 1'-0"


ADJUST TO GRADE W/ BRICK ON CONCRETE RINGS (12" HIGH MAX.)
30" C.I. M.H. FRAME & COVER
12" SQ x 8" THK. CONC. PAD
JUNCT. BOX
PRECAST CONC. M.H.
VALVE BOX
5'-0" or 5 PIPE DIA's - WHICHEVER IS LARGEST (TYP. EACH END OF METER)
4'-0"
FLOW METER
GATE VALVE w/ MECH. JT'S (2 REQ'D)
10"ø RED.
PIPE SUPPORTS
SEAL ALL OPENINGS WATERTIGHT
6" MAG. FLOW METER (SEE SPEC. 15176)
1'-6" MAT
WOOD PILE (TYP) 4'-0" O.C., E.W. (FOR ROUTE 107 IF NEEDED)
#5 @ 12" O.C. E.W., E.F.

DETAIL - 1
TYPICAL METER PIT



REMOTE TRANSMITTER RECEIVER
(TYPICAL - ROCKS ROAD & ROUTE 107 PUMP STATIONS)


NOTE: INSTALLATION OF GEN. SET FUEL PIPING & APPURTENANCES TO BE IN ACCORDANCE W/THE LATEST N.F.P.A. CODE.
RESIDENTIAL GRADE SILENCER
GAS CARBURETOR
SECONDARY REGULATOR
APPROVED FLEXIBLE SECTION
SOLENOID VALVE (ELEC FROM GEN. MOTOR CONTROL PANEL)
PRIMARY LINE REGULATOR & ATMOSPHERIC VENT
STRAINER
MANUAL SHUT OFF VALVE
VENT TO ATMOSPHERE
FLEXIBLE COUPLING (TYP.)
PAD TYPE VIBRATION ISOLATORS (QTY AS REQ'D BY MFG.)
⅝" ANCHOR BOLTS (QTY AS REQ'D BY MFG.)
NATURAL GAS SERVICE (SIZE BY GEN. MFG.)

SECTION B-B
NO SCALE

CONDITIONS OF SERVICE

GENERATOR :

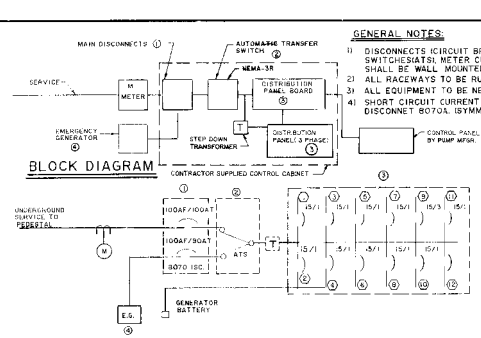
65 KILOWATTS AT 277/480 VOLTS, 3Ø-60 Hz, 105 AMPS

ENGINE :

126 MAX. H.P. AT 1800 R.P.M., 4 CYCLE, 8 CYLINDER, N.G. FUELED, LIQUID COOLED, EQUIPPED W/ RESIDENTIAL SERVICE SILENCER, 12V ELECTRIC START W/BATTERY CHARGER + BLOCK HEATER

CONTRACTOR SUPPLIED CONTROL PANEL COMPONENTS

1. MAIN DISCONNECT
2. COMMINUTOR PANEL
3. FLOW METER PANEL
4. RADIO ALARM SYSTEM (RTU)
5. 50' WATERPROOF TROUBLE LIGHT
6. 110V ELECTRICAL DUPLEX OUTLET



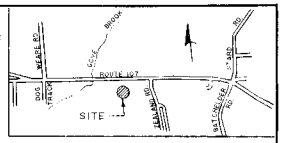
BLOCK DIAGRAM

CIRCUITS

No.	DESCRIPTION	AMPS	VOLTS	PHASE
(1)	STATION HEATER & LIGHT	15	120	1
(2)	H_2S MONITOR	15	120	1
(3)	RECEPTACLE w/GROUND FAULT	15	120	1
(4)	GEN. SET BATTERY CHARGER	15	120	1
(5)	ALARM LIGHTS & RADIO TELEMETRY	15	120	1
(6)	BUBBLER LEVEL CONTROL	15	120	1
(7)	FLOW METER & LAPSE TIME METER	15	120	1
(8)	STATION VENTILATOR BLOWER	15	120	1
(9)	HAND HELD LIGHT	15	120	1
(10)	STATION LIGHTS	15	120	1
(11)	STATION LIGHTS	15	120	1
(12)	SPARE			

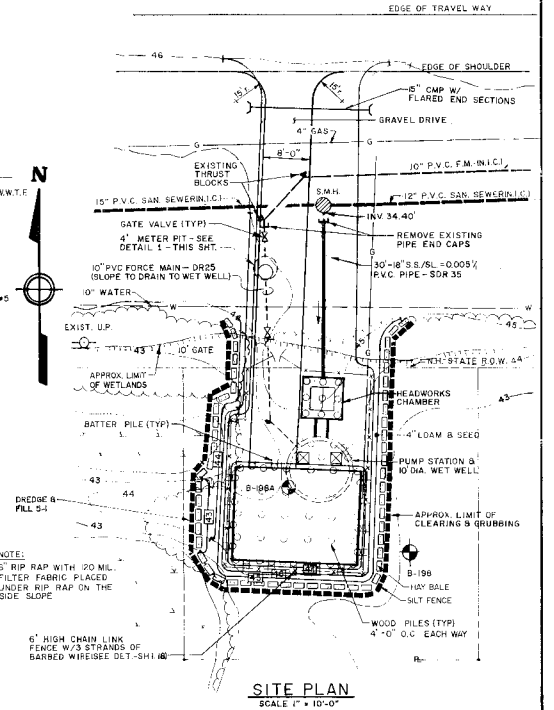
GENERAL NOTES:

1) DISCONNECTS (CIRCUIT BREAKER), AUTOMATIC TRANSFER SWITCHES(ATS), METER CUBICLE & DISTRIBUTION PANEL SHALL BE WALL MOUNTED TYPE.
2) ALL RACEWAYS TO BE RUN UNDERGROUND.
3) ALL EQUIPMENT TO BE NEMA-3R.
4) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNET 8070A. (SYMMETRICAL)



LOCUS PLAN
1" = 1250'±

N. H. ROUTE 107


EDGE OF TRAVEL WAY
EDGE OF SHOULDER
15" CMP W/ FLARED END SECTIONS
GRAVEL DRIVE
4" GAS
8"-0"
10" P.V.C. F.M. (IN I.C.)
EXISTING THRUST BLOCKS
S.M.H.
12" P.V.C. SAN. SEWER (IN I.C.)
15" P.V.C. SAN. SEWER (IN I.C.)
INV. 34.40'
GATE VALVE (TYP.)
4" METER PIT - SEE DETAIL 1 - THIS SHT.
REMOVE EXISTING PIPE END CAPS
10" PVC FORCE MAIN - DR25 (SLOPE TO DRAIN TO WET WELL)
30'-18" S.S./SL = 0.005% P.V.C. PIPE - SDR 35
10" WATER
EXIST. U.P.
10' GATE
APPROX. LIMIT OF WETLANDS
N.H. STATE R.O.W.
HEADWORKS CHAMBER
BATTER PILE (TYP.)
4" LOAM & SEED
PUMP STATION & 10' DIA. WET WELL
DREDGE & FILL
APPROX. LIMIT OF CLEARING & GRUBBING
B-198
HAY BALE
SILT FENCE
WOOD PILES (TYP.) 4'-0" O.C. EACH WAY
6' HIGH CHAIN LINK FENCE W/ 3 STRANDS OF BARBED WIRE SEE DET.-SH 1 (6)

NOTE:
6" RIP RAP WITH 120 MIL. FILTER FABRIC PLACED UNDER RIP RAP ON THE SIDE SLOPE

SITE PLAN
SCALE 1" = 10'-0"

5	GENERAL REVISIONS	WK	4/95	BHJ	BHJ	BHJ 4/95
4	PUMP STATION REVISIONS	DT	8/94	BHJ	BHJ	BHJ 8/94
3	GENERAL REVISIONS	DRT	3/94	BHJ	BHJ	BHJ 3/94
2	REVISED PLAN, SITE PLAN (SECT. A-A	KJM	7/90	JOE		JAH 7/90
1	REVISED SITE PLAN & GEN. REMISIONS.	KJM	5/90	JOE		JAH 5/90
0	ISSUED FOR APPROVAL	RG	10/88	JOE	RG	JAH 1/89
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR: APPROVED

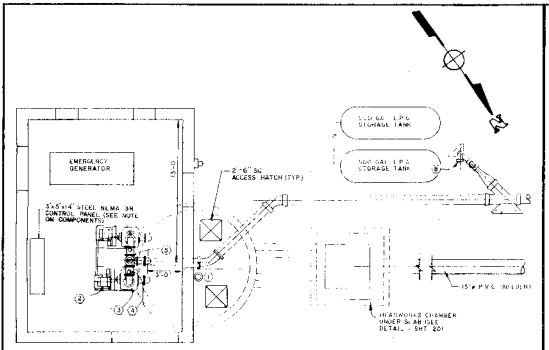
TOWN OF SEABROOK, NEW HAMPSHIRE

ROUTE 107 (GOVE BROOK) PUMP STATION

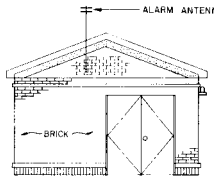
SITE PLAN & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

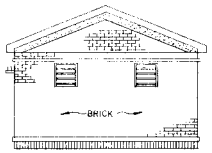
JOB NO. 8704/1444 CONTRACT NO. V SHEET 19 OF 28


EMERGENCY GENERATOR
500 GAL. L.P.G. STORAGE TANK
500 GAL. L.P.G. STORAGE TANK
2'-6" SQ. ACCESS HATCH (TYP.)
3'-0"
15" P.V.C. INFLUENT
HEADWORKS CHAMBER UNDER SLAB (SEE DETAIL - SHT. 20)

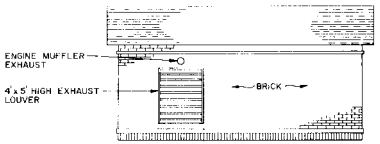
PLAN VIEW



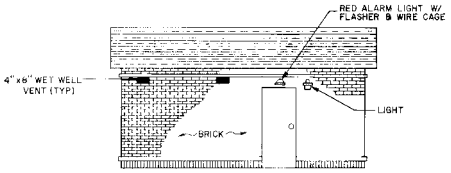
NORTH ELEVATION



SOUTH ELEVATION



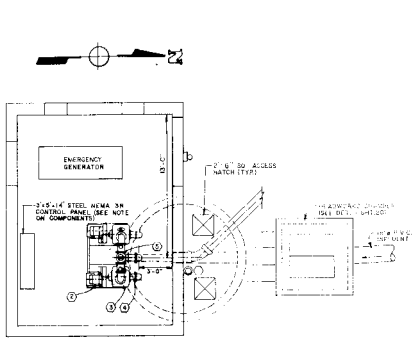
EAST ELEVATION



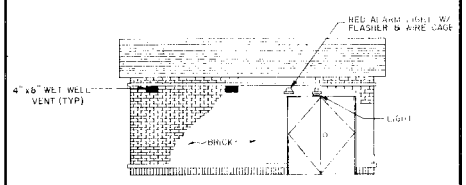
WEST ELEVATION

ROCKS ROAD PUMPING STATION

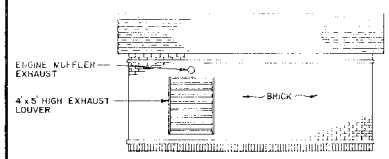
SCALE: 3/16"= 1'-0"



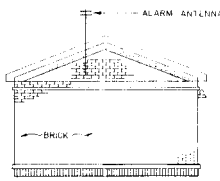
PLAN VIEW



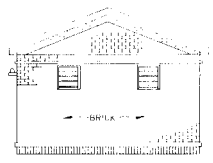
NORTH ELEVATION



SOUTH ELEVATION



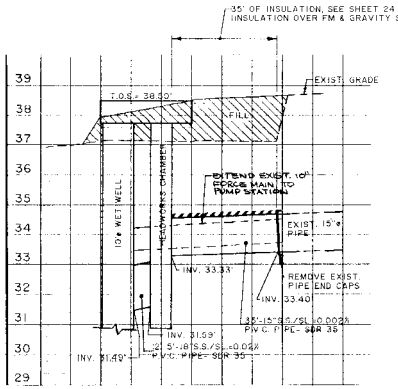
EAST ELEVATION



WEST ELEVATION

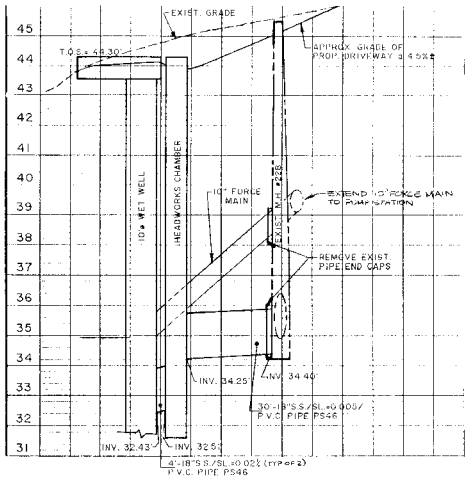
ROUTE 107 PUMPING STATION

SCALE: 3/16"= 1'-0"



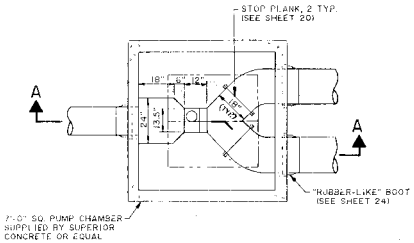
ROCKS ROAD PUMPING STATION PROFILE

SCALE: 1"= 20' (H)
1"= 2' (V)



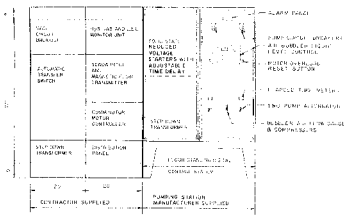
ROUTE 107 PUMPING STATION PROFILE

SCALE: 1"= 20' (H)
1"= 2' (V)

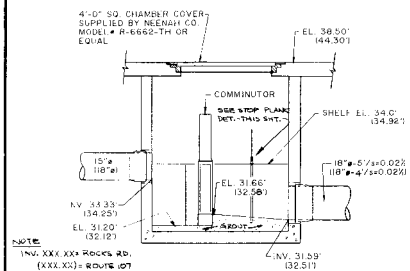


HEADWORKS CHAMBER

SCALE: 3/8"= 1'-0"

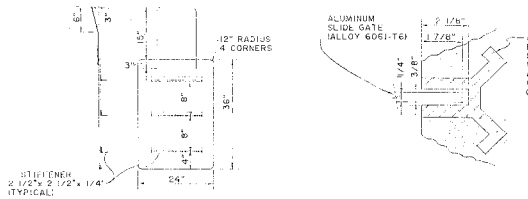


LAYOUT OF MOTOR CONTROL CABINETS - SEWAGE PUMPING STATION WITH EMERGENCY GENERATOR SET (ROUTE 107 AND ROCKS ROAD)
NO SCALE



SECTION A-A

SCALE: 3/8"= 1'-0"


12" RADIUS 4 CORNERS
STIFFENER 2 1/2"x 2 1/2"x 1/4" (TYPICAL)
STOP PLANK
ALUMINUM SLIDE GATE (ALLOY 6061-T6)
ALUM. GUIDE EXTRUSION SUPPLIED BY WASHINGTON ALUM. CO.# A-3240 OR EQUAL (ALLOY 6061-T6)
FRAME

STOP PLANK & FRAME DETAILS

NO SCALE

2	GENERAL REVISIONS	DRT	3/94	BHJ	BHJ	3/94
1	GENERAL REVISIONS	DRT	3/94	BHJ	BHJ	3/94
0	ISSUED FOR APPROVAL	WMA	7/90	JOE	JAH	7/90
NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

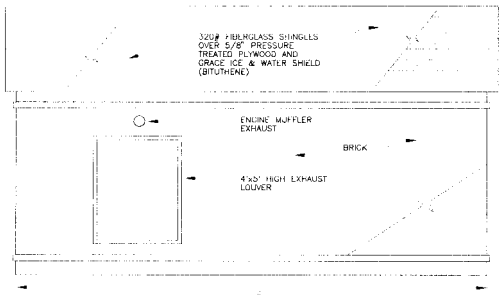
ROCKS ROAD/ ROUTE 107 PUMP STATIONS

MISC. DETAILS

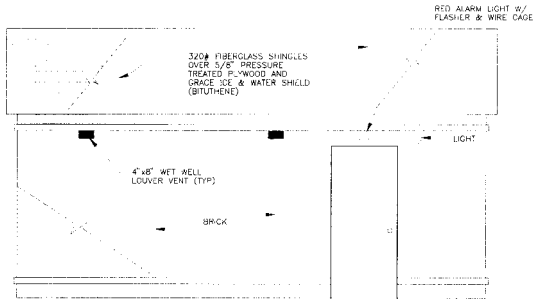
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 20 OF 28

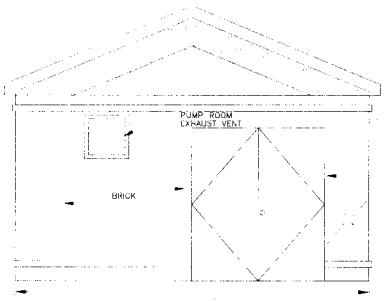
MARKFORCE P-5328


320# FIBERGLASS SHINGLES OVER 5/8" PRESSURE TREATED PLYWOOD AND GRACE ICE & WATER SHIELD (BITUTHENE)
ENGINE MUFFLER EXHAUST
BRICK
4'x5' HIGH EXHAUST LOUVER

REAR
3/8" = 1'-0"

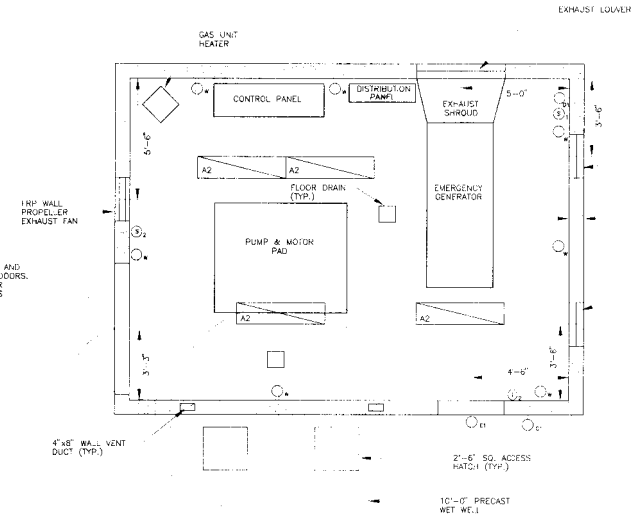

RED ALARM LIGHT W/ FLASHER & WIRE CAGE
320# FIBERGLASS SHINGLES OVER 5/8" PRESSURE TREATED PLYWOOD AND GRACE ICE & WATER SHIELD (BITUTHENE)
LIGHT
4"x8" WET WELL LOUVER VENT (TYP.)
BRICK

FRONT
3/8" = 1'-0"

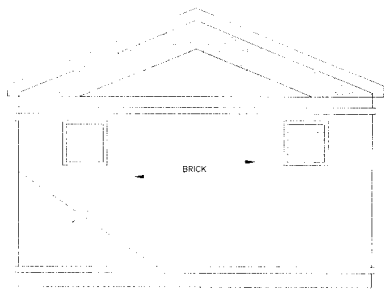


LT. SIDE
3/8" = 1'-0"

METAL STEEL FRAME AND SOLID CORE STEEL DOORS. CONTACT THE OWNER WHEN KEYING DOORS



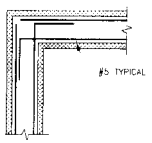
FLOOR PLAN
3/8" = 1'-0"



RT. SIDE
3/8" = 1'-0"

ELECTRICAL LEGEND

A2	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
C1	35 WATT H.P.S., BRACKET MOUNTED WEATHER PROOF, VANDAL & CORROSION RESISTANT, PHOTOELEC ACTUATED
D1	75 WATT H.P.S. WALL MTD., MOISTURE & CORROSION RESISTANT
E1	100 WATT REG LAMP, WALL MOUNTED, WEATHER PROOF, VANDAL & CORROSION RESISTANT
S1	SWITCH FOR D1 LIGHT
S2	3-WAY SWITCH FOR ALL A2 LIGHTS
W	DUPLEX RECEPTACLE, WEATHER PROOF

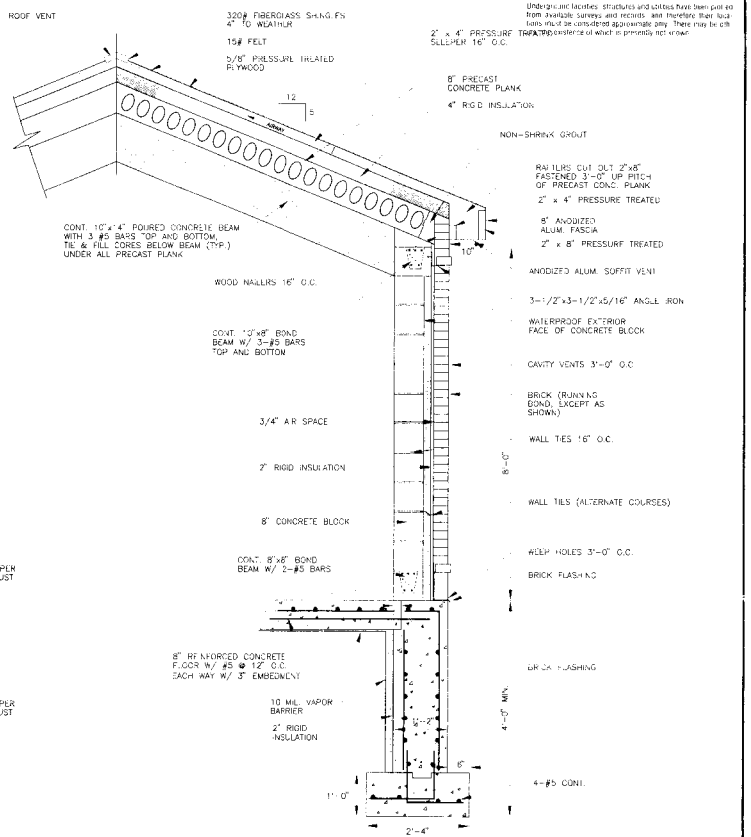


BOND BEAM CORNER REINFORCEMENT DETAIL
NOT TO SCALE

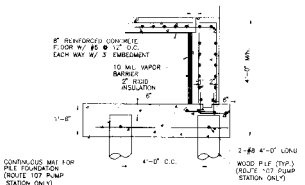
MOTOR OPERATED DAMPER FOR GENERATOR EXHAUST

8" (TYP)

MOTOR OPERATED DAMPER FOR GENERATOR EXHAUST


ROOF VENT
320# FIBERGLASS SHINGLES 4" TO WEATHR
15# FELT
5/8" PRESSURE TREATED PLYWOOD
12
5
2" x 4" PRESSURE TREATED SLEEPER 16" O.C.
8" PRECAST CONCRETE PLANK
4" RIGID INSULATION
NON-SHRINK GROUT
CONT. 10"x14" POURED CONCRETE BEAM WITH 3 #5 BARS TOP AND BOTTOM, TIE & FILL CORES BELOW BEAM (TYP.) UNDER ALL PRECAST PLANK
WOOD NAILERS 16" O.C.
RAFTERS CUT OUT 2"x8" FASTENED 3'-0" UP PITCH OF PRECAST CONC. PLANK
2" x 4" PRESSURE TREATED
8" ANODIZED ALUM. FASCIA
2" x 8" PRESSURE TREATED
ANODIZED ALUM. SOFFIT VENT
3-1/2"x3-1/2"x5/16" ANGLE IRON
WATERPROOF EXTERIOR FACE OF CONCRETE BLOCK
CAVITY VENTS 3'-0" O.C.
BRICK (RUNNING BOND, EXCEPT AS SHOWN)
3/4" AIR SPACE
WALL TIES 16" O.C.
2" RIGID INSULATION
8" CONCRETE BLOCK
WALL TILES (ALTERNATE COURSES)
CONT. 8"x8" BOND BEAM W/ 2-#5 BARS
WEEP HOLES 3'-0" O.C.
BRICK FLASHING
8" REINFORCED CONCRETE FLOOR W/ #5 @ 12" O.C. EACH WAY W/ 3" EMBEDMENT
10 MIL. VAPOR BARRIER
2" RIGID INSULATION
8'-0"
4'-0" MIN.
1'-0"
2'-4"
4-#5 CONT.

TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"


8" REINFORCED CONCRETE FLOOR W/ #5 @ 12" O.C. EACH WAY W/ 3" EMBEDMENT
10 MIL. VAPOR BARRIER
2" RIGID INSULATION
4'-0" MIN.
1'-8"
4'-0" O.C.
2-#8 4'-0" LONG
CONTINUOUS MAT FOR PILE FOUNDATION (ROUTE 107 PUMP STATION ONLY)
WOOD PILE (TYP.) (ROUTE 107 PUMP STATION ONLY)

PILE FOUNDATION FOR ROUTE 107 PUMP STATION
SCALE: 3/8" = 1'-0"

NOTES:

1. ROOF SHALL BE DESIGNED TO SUPPORT 100 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
2. FLOOR SHALL BE DESIGNED TO SUPPORT 300 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
3. THE CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE

NOTES.
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be oth

NO.	ISSUED FOR APPROVAL					
	DRT	9/94	JEC	BHJ	BHJ	9/94
	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

PUMPING STATION BUILDING

ARCHITECTURAL - MECHANICAL / ELECTRICAL DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 20A OF 28

SANITARY SEWER CONSTRUCTION

SEABROOK, NEW HAMPSHIRE

PUMPING STATIONS

1994

SELECTMEN
ELIZABETH A. THIBODEAU CHAIRPERSON
ASA H. KNOWLES JR..
BURWELL PIKE
TOWN MANAGER E. RUSSELL BAILEY

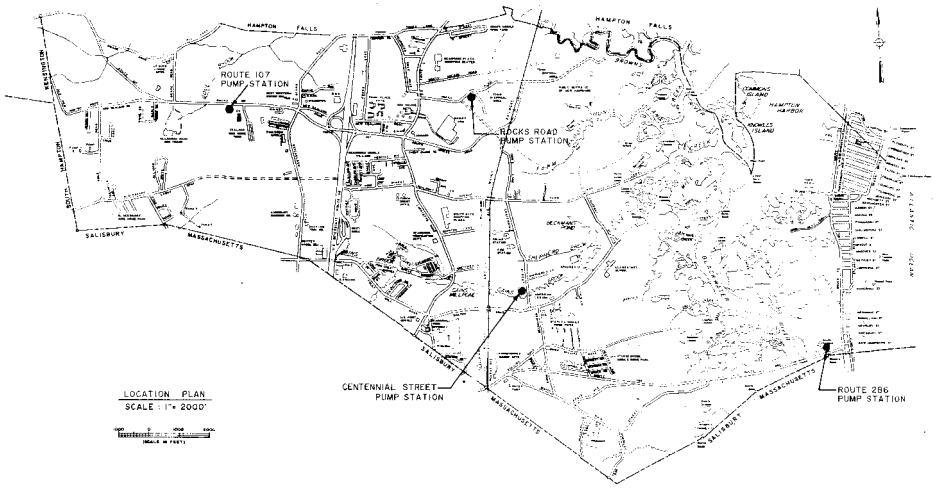
JONES & BEACH/STEARNS & WHEELER

JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

CONTRACT NO. 5

INDEX

DWG. NO.	DRAWING TITLE
—	COVER SHEET
ROUTE 286 PUMP STATION	
01	SITE PLAN
02	ARCHITECTURAL PLAN & ELEVATIONS
03	STRUCTURAL & ARCHITECTURAL PLANS, SECTIONS, & DETAILS
04	MECHANICAL – PLANS & SECTIONS
05	MECHANICAL – SECTIONS & DETAILS
06	ELECTRICAL – PLANS & DETAILS
07	ELECTRICAL SCHEMATIC
08	ELECTRICAL – DETAILS & GENERAL NOTES
09	MISCELLANEOUS DETAILS
CAINS BROOK / CENTENNIAL STREET PUMP STATION	
10	SITE PLAN
11	ARCHITECTURAL PLAN & ELEVATIONS
12	MECHANICAL – PLANS & DETAILS
13	MECHANICAL – SECTIONS & DETAILS
14	ELECTRICAL – PLANS & DETAILS
15	ELECTRICAL SCHEMATIC
16	ELECTRICAL – DETAILS & GENERAL NOTES
17	MISCELLANEOUS DETAILS
ROCKS ROAD PUMP STATION	
18	SITE PLAN & DETAILS
ROUTE 107 (GOVE BROOK) PUMP STATION	
19	SITE PLAN & DETAILS
ROCKS ROAD & ROUTE 107 PUMP STATIONS	
20	MISCELLANEOUS DETAILS
20A	ARCHITECTURAL - MECHANICAL / ELECTRICAL DETAILS
21	EROSION CONTROL DETAILS
22	STANDARD MANHOLE DETAILS – SHT. 1 OF 2
23	STANDARD MANHOLE DETAILS – SHT. 2 OF 2
24	STANDARD TRENCH SECTIONS



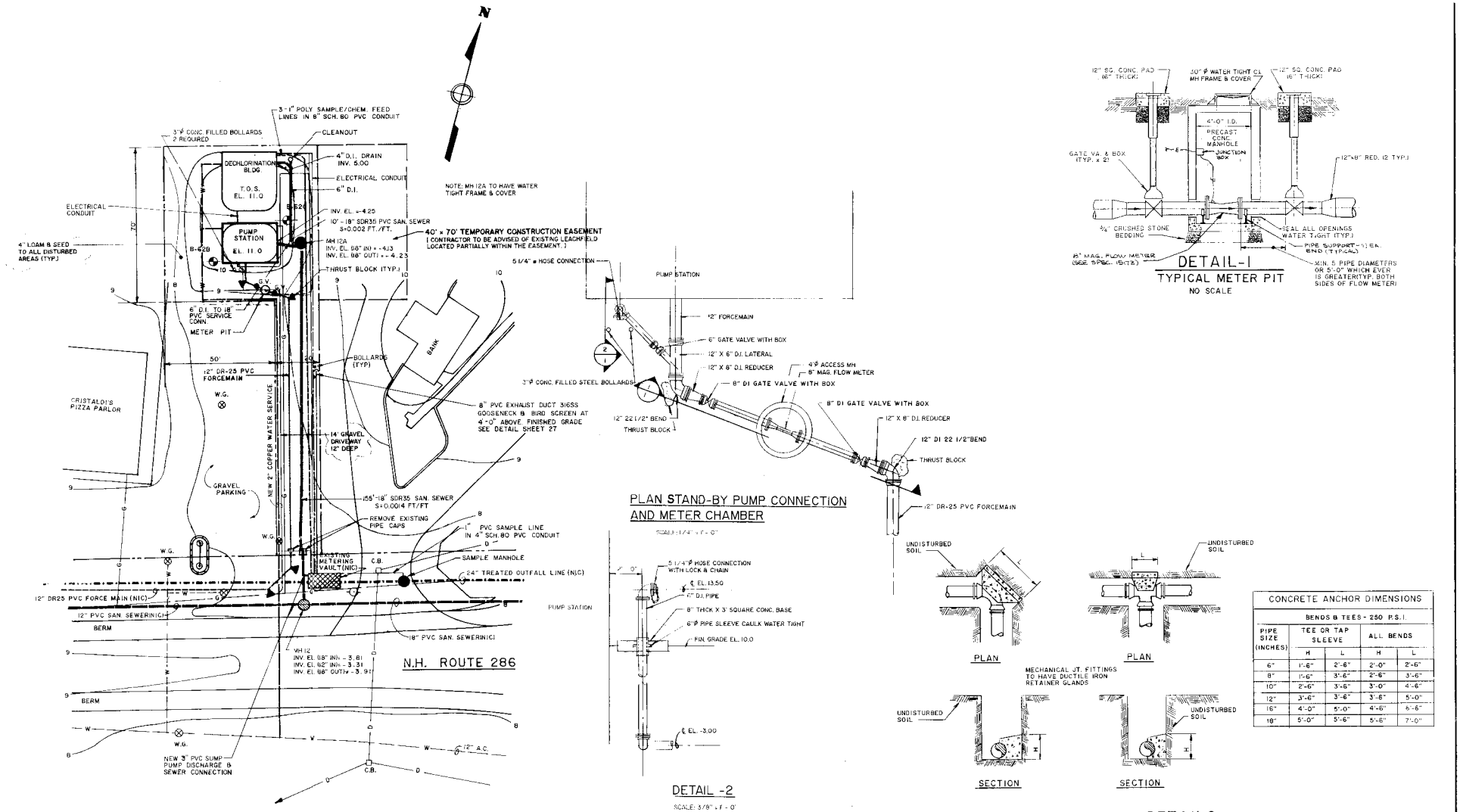
LOCATION PLAN
SCALE : 1" = 2000'

ABBREVIATIONS

BENCH MARK	BM
BITUMINOUS	BIT
CAST IRON PIPE	CIP
CATCH BASIN	C.B.
CONCRETE	CONC
CORRUGATED METAL PIPE	CMP
STORM DRAIN	D
ELEVATION	EL.
FENCE	FC
FINISHED FLOOR	F.F.
FORCE MAIN	F.M.
GAS MAIN	G
GUIDE POST	GP
HYDRANT	HYD
INVERT	INV
IRON PIN	IP
LAMP POLE	L.P.
MANHOLE	M.H.
MONUMENT	MON
PERMANENT EASEMENT	P.E.
RIGHT OF WAY	ROW
SEWER	S
STONE	ST
SEWER MANHOLE	SMH
TEMPORARY EASEMENT	T.E.
WATER	W
WOOD	WD
WOVEN WIRE	W.W.
PROPERTY LINE	℄
GRAVEL	GRAV.
TOP OF SLAB	T.O.S.
FINISH GRADE	F.G.
TYPICAL	TYP
POLYVINYL CHLORIDE	PVC
DUCTILE IRON	D.I.
CAST IRON	C.I.
CONCRETE MASONRY UNIT	C.M.U.

LEGEND

- PROPOSED SANITARY SEWER WITH LATERAL
- EXISTING SANITARY SEWER WITH LATERAL
- SANITARY SEWER WITH PROFILE ON ANOTHER SHEET
- FORCE MAIN
- PUMP STATION (PROPOSED/EXISTING) — P.S. / P.S.
- OCEAN OUTFALL WITH STATIONING — 2'00
- MANHOLE (PROPOSED/EXISTING) — M.H. / M.H.
- CATCH BASIN (PROPOSED/EXISTING) — C.B. / C.B.
- CULVERT — 12" C.M.P.
- HYDRANT — HYD
- WATER MAIN — W
- WATER VALVE/WATER SERVICE — W.V. / W.S.
- GAS MAIN — G
- GAS VALVE/GAS SERVICE — G.V. / G.S.
- UNDERGROUND TELEPHONE/ELECTRICAL — T / E
- STREAM/BROOK
- POND/WET AREA
- RIVER
- WOODS AND/OR BRUSH LINE
- APPROXIMATE TOWN/STATE LINE
- APPROXIMATE RIGHT-OF-WAY LINE
- EXISTING CONTOUR — 50
- PROPOSED CONTOUR — 50
- LEDGE OUTCROP
- RETAINING WALL
- GUARD RAIL
- STONE WALL
- FENCE
- CONIFEROUS/DECIDUOUS TREES
- SHRUBS OR BUSH — 3
- HOUSE OR BUILDING
- HOUSE NUMBER — 24
- HOUSE WITH SEWER SERVICE — S
- UTILITY POLE
- LAMP POLE — L.P.
- MAILBOX — M.B.
- SIGN
- BASELINE CONTROL POINT — M-1
- FABRIC FENCE (SILTATION CONTROL)


N
3-1" POLY SAMPLE/CHEM. FEED LINES IN 8" SCH. 80 PVC CONDUIT
3'ϕ CONC. FILLED BOLLARDS 2 REQUIRED
CLEANOUT
DECHLORINATION BLDG.
T.O.S. EL. 11.0
PUMP STATION
EL. 11.0
4" D.I. DRAIN INV. 5.00
ELECTRICAL CONDUIT
6" D.I.
INV. EL. +4.25
10'-18" SDR35 PVC SAN. SEWER S=0.002 FT./FT.
MH 12A
INV. EL. 98" IN = +4.13
INV. EL. 98" OUT = +4.23
40' x 70' TEMPORARY CONSTRUCTION EASEMENT
(CONTRACTOR TO BE ADVISED OF EXISTING LEACHFIELD LOCATED PARTIALLY WITHIN THE EASEMENT.)
NOTE: MH 12A TO HAVE WATER TIGHT FRAME & COVER
4" LOAM & SEED TO ALL DISTURBED AREAS (TYP.)
THRUST BLOCK (TYP.)
G.V.
6" D.I. TO 18" PVC SERVICE CONN.
METER PIT
50'
12" DR-25 PVC FORCEMAIN
BOLLARDS (TYP.)
BANK
CRISTALDI'S PIZZA PARLOR
W.G.
8" PVC EXHAUST DUCT 316SS GOOSENECK & BIRD SCREEN AT 4'-0" ABOVE FINISHED GRADE SEE DETAIL SHEET 27
14' GRAVEL DRIVEWAY 12" DEEP
NEW 2" COPPER WATER SERVICE
GRAVEL PARKING
155'-18" SDR35 SAN. SEWER S=0.0014 FT/FT
REMOVE EXISTING PIPE CAPS
1" PVC SAMPLE LINE IN 4" SCH. 80 PVC CONDUIT
EXISTING METERING VAULT (N.I.C.)
C.B.
SAMPLE MANHOLE
24" TREATED OUTFALL LINE (N.I.C.)
12" DR25 PVC FORCE MAIN (N.I.C.)
12" PVC SAN. SEWER (N.I.C.)
PUMP STATION
BERM
18" PVC SAN. SEWER (N.I.C.)
MH 12
INV. EL. 98" IN = -3.81
INV. EL. 92" IN = -3.31
INV. EL. 98" OUT = -3.91
N.H. ROUTE 286
BERM
W.G.
12" A.C.
NEW 3" PVC SUMP PUMP DISCHARGE & SEWER CONNECTION
C.B.

SITE PLAN OF ROUTE 286 PUMP STATION

SCALE: 1" = 20'

PUMP STATION
5 1/4" ϕ HOSE CONNECTION
12" FORCEMAIN
6" GATE VALVE WITH BOX
12" X 6" D.I. LATERAL
12" X 6" D.I. REDUCER
4'ϕ ACCESS MH
6" MAG. FLOW METER
3'ϕ CONC. FILLED STEEL BOLLARDS
8" DI GATE VALVE WITH BOX
12" 22 1/2° BEND
THRUST BLOCK
8" DI GATE VALVE WITH BOX
12" X 8" D.I. REDUCER
12" DI 22 1/2°BEND
THRUST BLOCK
12" DR-25 PVC FORCEMAIN

PLAN STAND-BY PUMP CONNECTION AND METER CHAMBER

SCALE: 1/4" = 1' - 0"

5 1/4"ϕ HOSE CONNECTION WITH LOCK & CHAIN
℄ EL. 13.50
10" D.I. PIPE
8" THICK X 3' SQUARE CONC. BASE
6"ϕ PIPE SLEEVE CAULK WATER TIGHT
FIN. GRADE EL. 10.0
℄ EL. -3.00

DETAIL -2

SCALE: 3/8" = 1' - 0"

12" SQ. CONC. PAD 16" THICK
30" ϕ WATER TIGHT CI MH FRAME & COVER
12" SQ. CONC. PAD 16" THICK
4'-0" I.D. PRECAST CONC. MANHOLE
JUNCTION BOX
GATE VA. & BOX (TYP. x 2)
12"x8" RED. (2 TYP.)
¾" CRUSHED STONE BEDDING
SEAL ALL OPENINGS WATER TIGHT (TYP.)
PIPE SUPPORT - ½ EA. END (TYPICAL)
8" MAG. FLOW METER (SEE SPEC. 15178)
MIN. 5 PIPE DIAMETERS OR 5'-0" WHICH EVER IS GREATER TYP. BOTH SIDES OF FLOW METER

DETAIL-1
TYPICAL METER PIT
NO SCALE

THRUST BLOCK DETAILS
NO SCALE

CONCRETE ANCHOR DIMENSIONS				
BENDS & TEES - 250 P.S.I.				
PIPE SIZE (INCHES)	TEE OR TAP SLEEVE		ALL BENDS	
	H	L	H	L
6"	1'-6"	2'-6"	2'-0"	2'-6"
8"	1'-6"	3'-6"	2'-6"	3'-6"
10"	2'-6"	3'-6"	3'-0"	4'-6"
12"	3'-6"	3'-6"	3'-6"	5'-0"
16"	4'-0"	5'-0"	4'-6"	6'-6"
18"	5'-0"	5'-6"	5'-6"	7'-0"

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
6	ADDED FINISH CONTOURS & DRIVEWAY	WK	3/95	BHJ		BHJ	3/95
5	ADDED DECHLORINATION FACILITY	EM	8/94	JEC		BHJ	8/94
4	ADDED TEMPORARY EASEMENT	JAP	7/94			BHJ	7/94
3	ADD STAND-BY PUMP & CONN.	RAH	8/91		JAH	BHJ	8/91
2	REVISED T.O.S. ELEV.	JAH	8/91	JOE	BHJ	BHJ	8/91
1	SITE PLAN REVISED	WM	5/90	JOE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	1/89	JOE	RG	JAH	1/89

PROJECT SURVEYOR: APPROVED

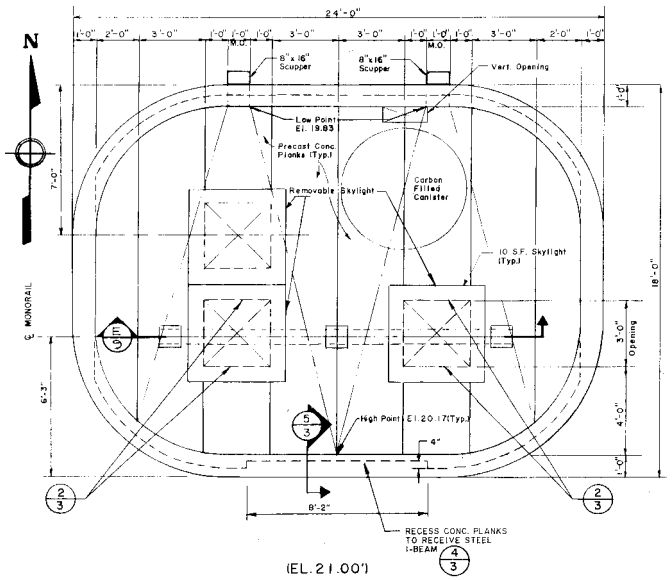
TOWN OF SEABROOK, NEW HAMPSHIRE

SITE PLAN
ROUTE 286 PUMP STATION

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 1 OF 28

H.H. SULLIVAN, INC. 606397



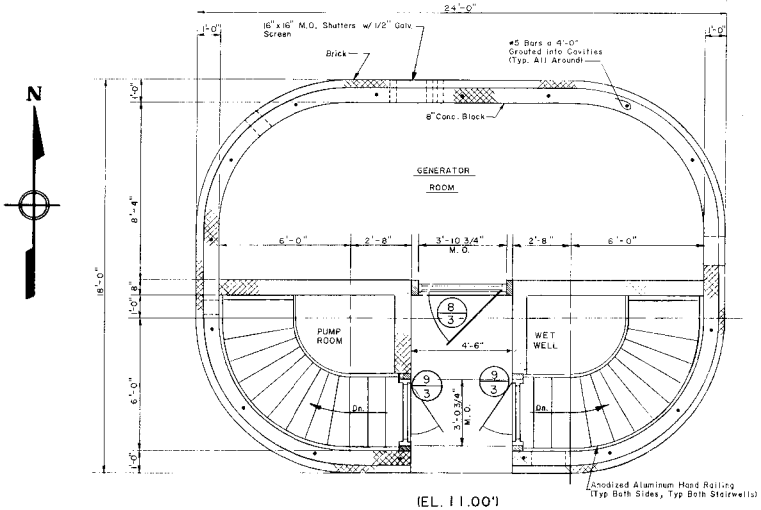
(EL. 21.00')

PLAN-ROOF

3/8" = 1'-0"

NOTE:

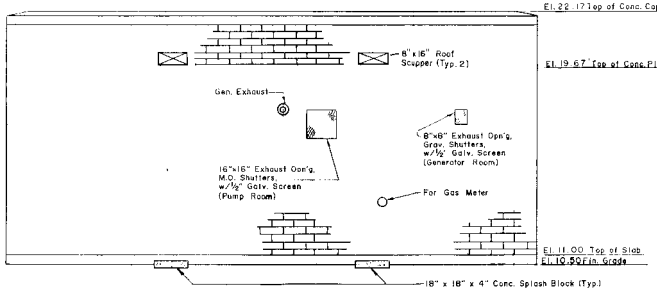
1. ROOF SHALL BE DESIGNED TO SUPPORT 100 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD PLUS A SUPERIMPOSED POINT LOAD OF ABOUT 4000 POUNDS FOR THE SPENT CARBON CANISTER
2. FLOOR(S) SHALL BE DESIGNED TO SUPPORT 300 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
3. THE CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE



(EL. 11.00')

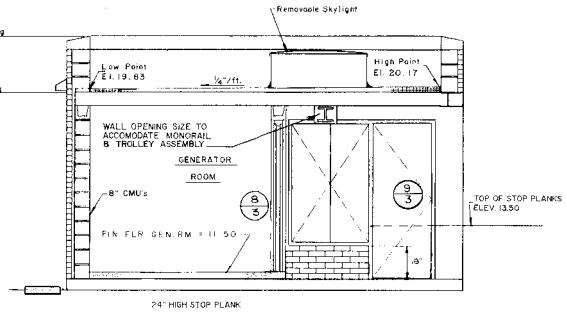
PLAN - GROUND FLOOR

3/8"=1'-0"


El. 22.17 Top of Conc. Coping
8"x16" Roof Scupper (Typ. 2)
El. 19.67 Top of Conc. Plank
Gen. Exhaust
8"x8" Exhaust Opn'g, Grav. Shutters, w/ 1/2" Galv. Screen (Generator Room)
16"x16" Exhaust Opn'g, M.O. Shutters, w/1/2" Galv. Screen (Pump Room)
For Gas Meter
El. 11.00 Top of Slab
El. 10.50 Fin. Grade
18" x 18" x 4" Conc. Splash Block (Typ.)

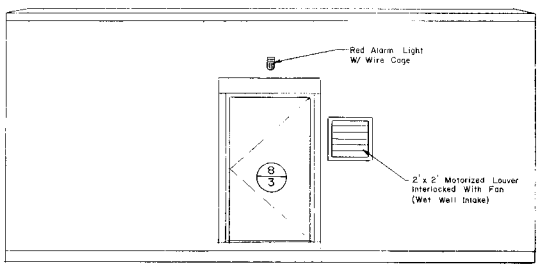
NORTH ELEVATION

3/8"=1'-0"


Removable Skylight
High Point El. 20.17
Low Point El. 19.83
1/4"/ft.
WALL OPENING SIZE TO ACCOMODATE MONORAIL & TROLLEY ASSEMBLY
GENERATOR ROOM
8" CMU's
FIN. FLR. GEN. RM. = 11.50
TOP OF STOP PLANKS ELEV. 13.50
24" HIGH STOP PLANK

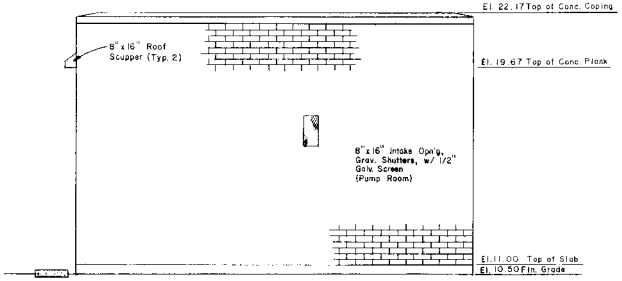
CROSS SECTION LOOKING EAST

3/8"=1'-0"



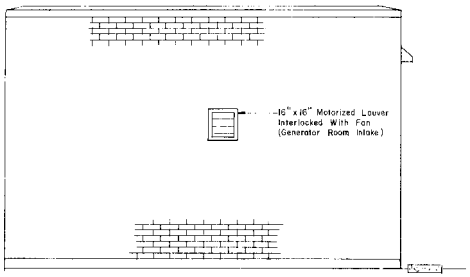
SOUTH ELEVATION

3/8"=1'-0"


El. 22.17 Top of Conc. Coping
8"x16" Roof Scupper (Typ. 2)
El. 19.67 Top of Conc. Plank
8"x16" Intake Opn'g, Grav. Shutters, w/ 1/2" Galv. Screen (Pump Room)
El. 11.00 Top of Slab
El. 10.50 Fin. Grade

WEST ELEVATION

3/8"=1'-0"



EAST ELEVATION

3/8"=1'-0"

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	ADDED BRICK FACE	DT	6/94	JEC	BHJ	BHJ	8/94
3	ADDED 1' TO T.O.S. EL.	JAH	8/91	JOE	JAH	BHJ	8/91
2	GENERAL REVISIONS	WM	5/90	JOE	JAH	JAH	5/90
0	Issued for Approval	RG	12/88	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: John H. Haggett — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION

ARCHITECTURAL

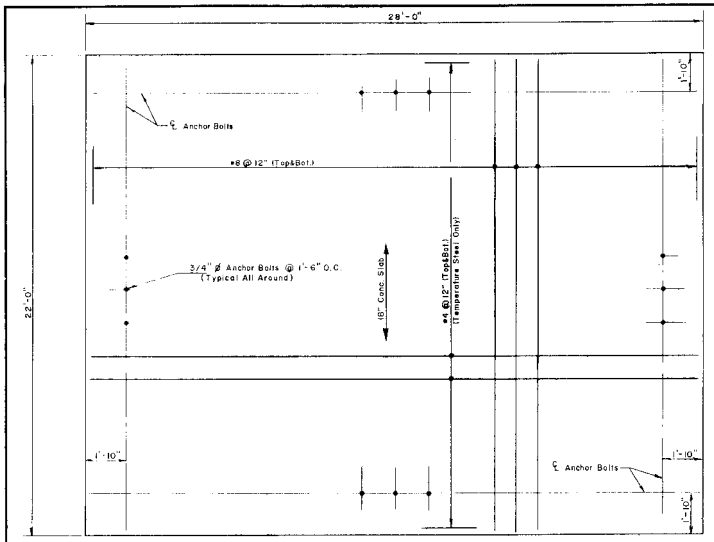
PLAN & ELEVATIONS

Jones & Beach / Stearns & Wheler

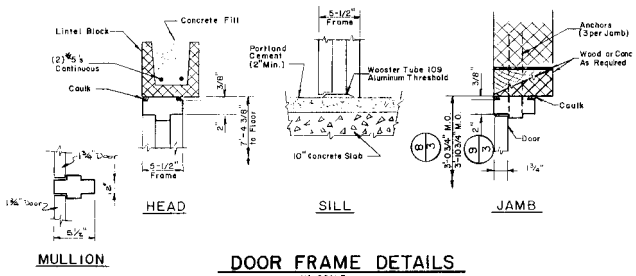
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

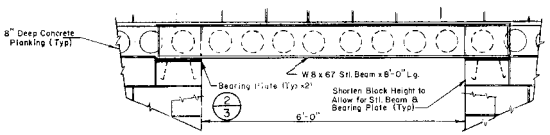
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 2 OF 28



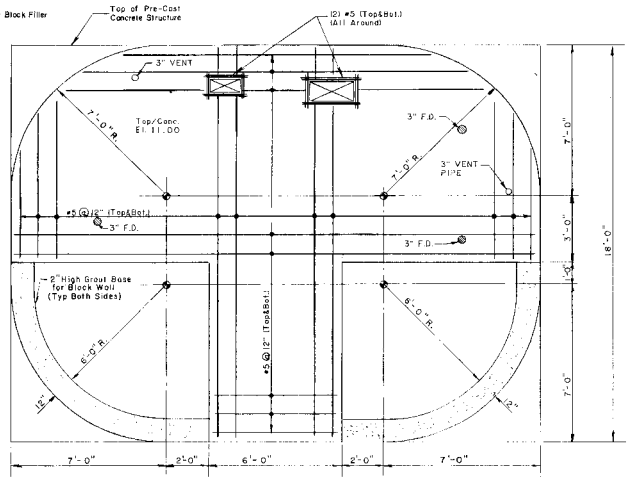
(EL. -12.67)
PLAN-FOUNDATION SLAB
3/8"=1'-0"



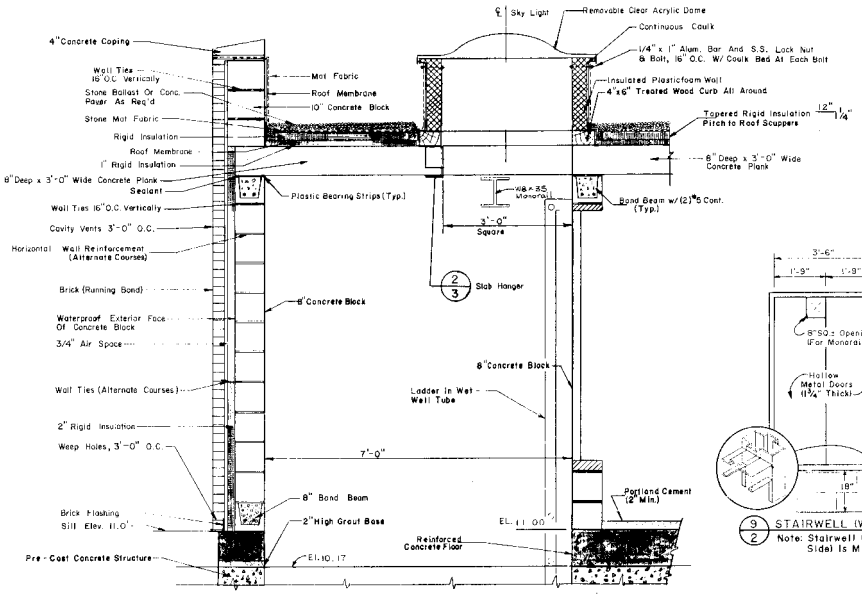
DOOR FRAME DETAILS
NO SCALE


8" Deep Concrete Planking (Typ)
W8 x 67 Stl. Beam x 8'-0" Lg.
Bearing Plate (Typ x2)
Shorten Block Height to Allow for Stl. Beam & Bearing Plate (Typ)
6'-0"

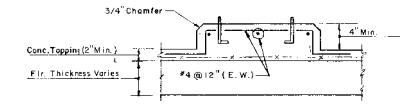
4/2 ENTRYWAY BEAM SECTION
NO SCALE



(EL. 11.00)
PLAN-UPPER LEVEL SLAB
3/8"=1'-0"

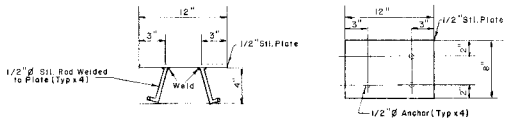


EXTERIOR WALL, ACCESS TUBE & ROOF SECTION
3/4"=1'-0"

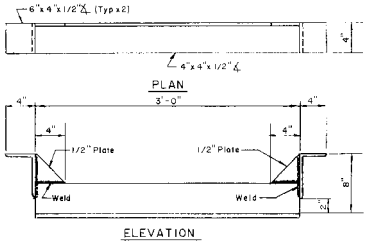


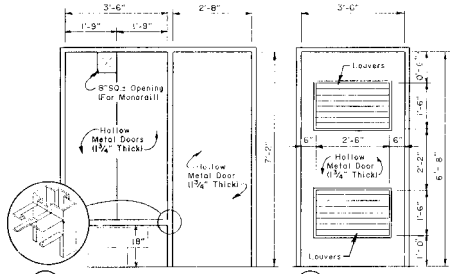
NOTE: Size & Location of Pads & Anchor Bolts Shall Be Determined in Accordance with Equipment to be Installed

(GENERATOR, M.C.C.-E.C.C & PUMP PADS)
TYPICAL CONCRETE PAD SECTION
NO SCALE



3/3 BEARING PLATE DETAIL
NO SCALE



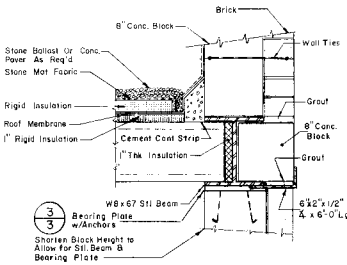


9/2 STAIRWELL (Wet Well Side)
Note: Stairwell (Pump Room Side) Is Mirror Image

8/2 GENERATOR ROOM (11 Req'd)

(For Further Information See Door Frame Details Above)

DOOR DETAILS
NO SCALE



3/3 Bearing Plate w/Anchors

5/2 BEAM CROSS SECTION
NO SCALE

2/2&3 SLAB HANGER DETAIL
NO SCALE

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	GEN. REVISIONS				BHJ	5/94
	DT	9/94	JEC	BHJ		
2	GEN. REVISIONS				BHJ	12/92
	GEB	12/92	JAH	BHJ		
1	REVISED T.O.S. TO 11.00				BHJ	8/91
	JAH	8/91	JOE	JAH		
0	Issued For Approval				JAH	1/89
	RC	11/88	JOE	RS / JAH		

PROJECT SUPERVISOR: John A. Chiggino
APPROVED

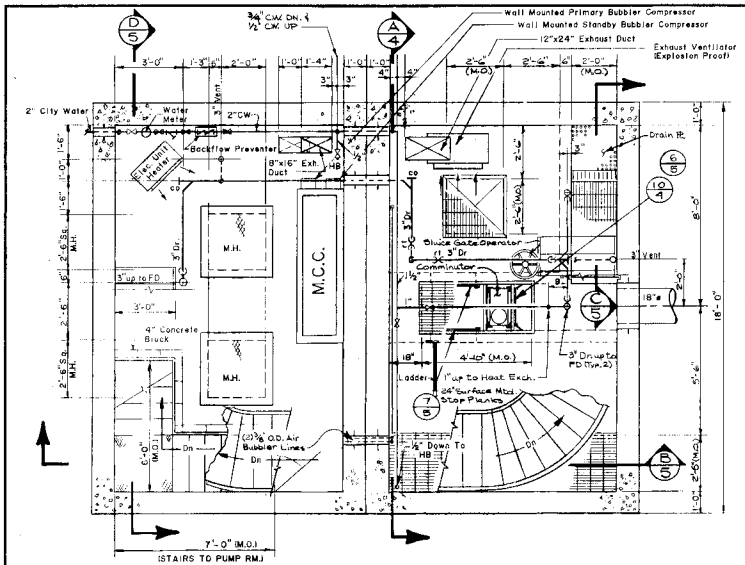
TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION

STRUCTURAL & ARCHITECTURAL PLANS, SECTIONS & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

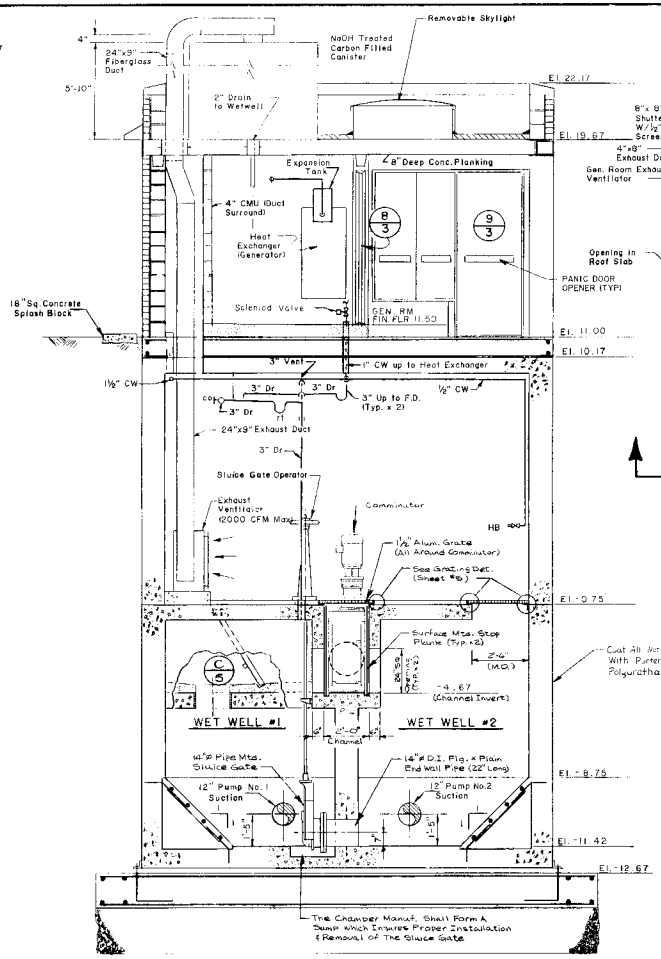
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 3 OF 28



(EL.-0.08)

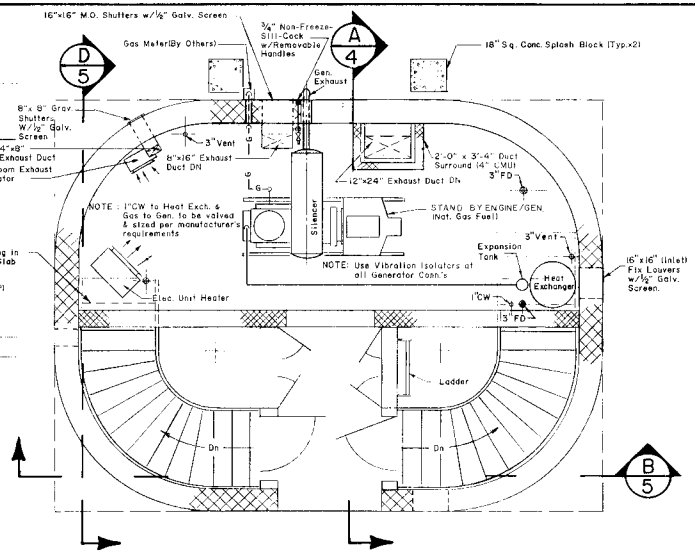
PLAN-MID LEVEL

3/8" = 1'-0"


Removable Skylight
NaOH Treated Carbon Filled Canister
24"x9" Fiberglass Duct
2" Drain to Wetwell
EL. 22.17
EL. 19.67
8" Deep Conc. Planking
Expansion Tank
4" CMU (Duct Surround)
Heat Exchanger (Generator)
Solenoid Valve
GEN. RM FIN. FLR 11.50
PANIC DOOR OPENER (TYP.)
Opening in Roof Slab
18" Sq. Concrete Splash Block
EL. 11.00
EL. 10.17
3" Vent
1" CW up to Heat Exchanger
1½" CW
3" Up to F.D. (Typ. x 2)
24"x9" Exhaust Duct
Sluice Gate Operator
Exhaust Ventilator 12000 CFM Max.
Comminutor
1½" Alum. Grate (All Around Comminutor)
See Grating Det. (Sheet #6)
EL. -0.75
Surface Mtd. Stop Planks (Typ.2)
-4.67 (Channel Invert)
WET WELL #1
WET WELL #2
14"ø Pipe Mtds. Sluice Gate
14"ø D.I. Flg. x Plain End Wall Pipe (22" Long)
12" Pump No.1 Suction
12" Pump No.2 Suction
EL. -8.75
EL. -11.42
EL. -12.67
Coat All Wet Well Interior Surfaces With Porter Int. Polurial 670 + 705 Polyurethane
The Chamber Manuf. Shall Form A Dump Which Insures Proper Installation & Removal of the Sluice Gate

SECTION A/4

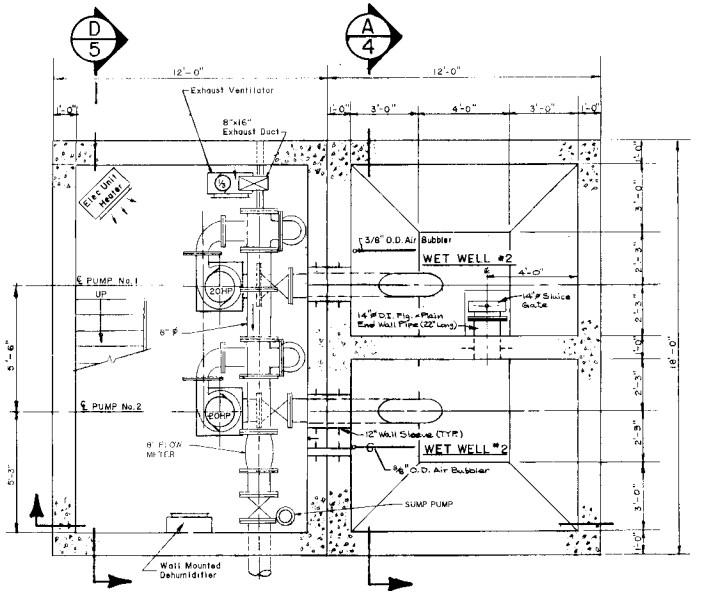
3/8" = 1'-0"


16"x16" M.O. Shutters w/½" Galv. Screen
Gas Meter(By Others)
¾" Non-Freeze-Stl-Cock w/Removable Handles
18" Sq. Conc. Splash Block (Typ.x2)
Gen. Exhaust
8"x 8" Grav. Shutters W/½" Galv. Screen
3" Vent
4"x9" Exhaust Duct
Gen. Room Exhaust Ventilator
8"x16" Exhaust Duct Dn
2'-0" x 3'-4" Duct Surround (4" CMU)
12"x24" Exhaust Duct Dn
3"FD
NOTE: 1"CW to Heat Exch. & Gas to Gen. to be valved & strad per manufacturer's requirements
STAND BY ENGINE/GEN. (Nat. Gas Fuel)
Silencer
Expansion Tank
NOTE: Use Vibration Isolators at all Generator Conn's
16"x16" (inlet) Fix Louvers w/½" Galv. Screen.
Elec. Unit Heater
1"CW
Heat Exchanger
1½" FD
Ladder
Dn

(EL. 11.00)

PLAN-UPPER LEVEL

3/8" = 1'-0"

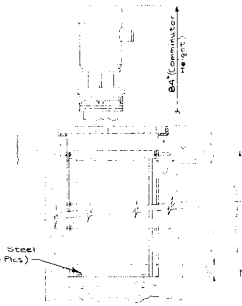


(EL.-11.42)

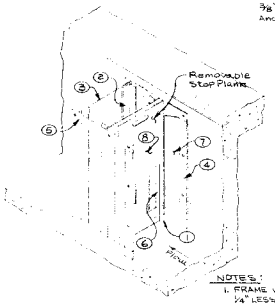
PLAN-LOWER LEVEL

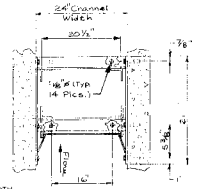
3/8" = 1'-0"

CHANNEL FRAME PARTS LIST			
ITEM	QTY.	DESCRIPTION	DIMENSIONS
1	2	1"x1½"x⅛ Channel	3'-5½"
2	4	2"x2"x¼" Angle	3'-7"
3	4		1'-11¾"
4	2	2"x¼" Flat	3'-5"
5	4		1'-3½"
6	2	3"x¼" Flat	3'-4¾"
7	2	¼" Plate	3'-5¾"x0'-2¾"
8	1		3'-8"x1'-8"



CHANNEL VIEW





TOP VIEW
(COMMINUTOR NOT SHOWN)

MECHANICAL NOTES

1) ALL EQUIPMENT AND FLOOR DRAINS SHALL BE INDIVIDUALLY TRAPPED IN ACCORDANCE WITH THE LATEST EDITION OF STATE AND LOCAL PLUMBING CODES
2) ALL NATURAL GAS PIPING SHALL BE SIZED IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
3) THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY FLOW VALVES, DRIPS, DRYERS, METERS, COCKS, REGULATORS, STRAINERS AND APPERTENANCES TO CONSTRUCT A WORKING GAS SYSTEM SERVICING THE EMERGENCY GENERATOR AND UNIT HEATERS. THIS SYSTEM SHALL CONFORM TO ALL APPLICABLE STATE AND LOCAL CODES.

RECORD DRAWING (10/4) COMMINUTOR CHANNEL FRAME DETAILS

NO SCALE

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
5	KJL	04/96	BHJ		BHJ	04/96
4	PAT	12/94	BHJ	BHJ	BHJ	12/92
3	GB	11/92	WM	BHJ	BHJ	8/91
2	JAH	8/91	JOE	JAH	JAH	5/90
1	WM	5/90	JOE		JAH	1/89
0	RG	11/88	JOE	RG		

REVISED T.O.S. TO 11.00
GENERAL REVISIONS
ISSUED FOR APPROVAL

PROJECT APPROVED: APPROVED

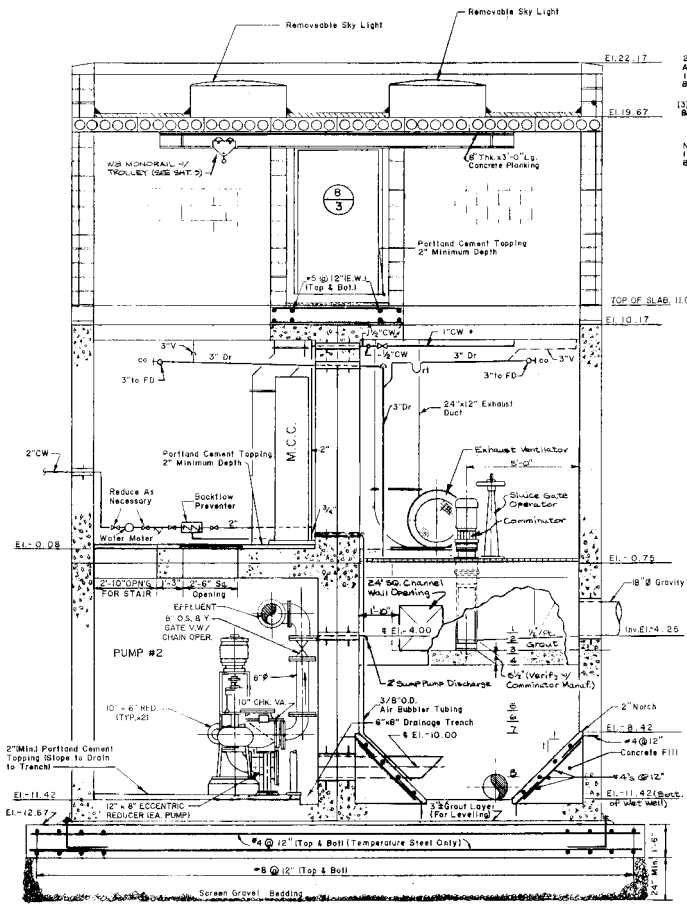
TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION

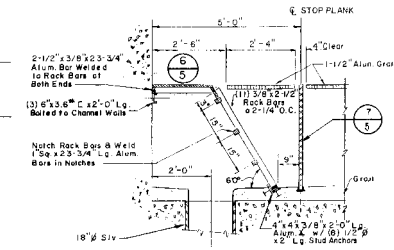
MECHANICAL PLANS & SECTIONS

Jones & Beach / Stearns & Wheler
JOINT VENTURE - CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 CONTRACT NO. V SHEET 4 OF 28

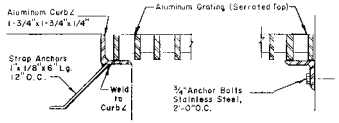


SECTION B/4
3/8"= 1'-0"


℄ STOP PLANK
5'-0"
2'-6"
2'-4"
4" Clear
1-1/2" Alum. Grate
2-1/2" x 3/8" x 2'-3-3/4" Alum. Bar Welded to Rack Bars at Both Ends
(11) 3/8 x 2-1/2" Rack Bars @ 2-1/4" O.C.
(3) 6" x 3.6# C x 2'-0" Lg. Bolted to Channel Walls
Notch Rack Bars & Weld 1" Sq. x 2'-3-3/4" Lg. Alum. Bars in Notches
2'-0"
60°
9"
Grout
18" Ø Sly
4" x 4" x 3/8" x 2'-0" Lg. Alum. ∠ w/ (8) 1/2" Ø x 2" Lg. Stud Anchors

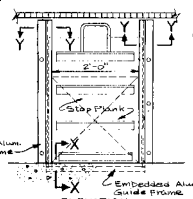
SECTION C/4
NO SCALE

* 1" ø CW Line to Heat Exchanger (Reduce Line Size at Heat Exch. per Manufacturer's Requirements)

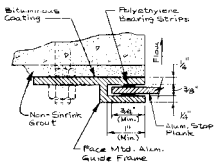

Aluminum Curb ∠ 1-3/4" x 1-3/4" x 1/4"
Aluminum Grating (Serrated Top)
Strap Anchors 1" x 1/8" x 6" Lg. 12" O.C.
Weld to Curb ∠
3/4" Anchor Bolts Stainless Steel, 2'-0" O.C.

GRATING ANGLE DETAIL
NO SCALE

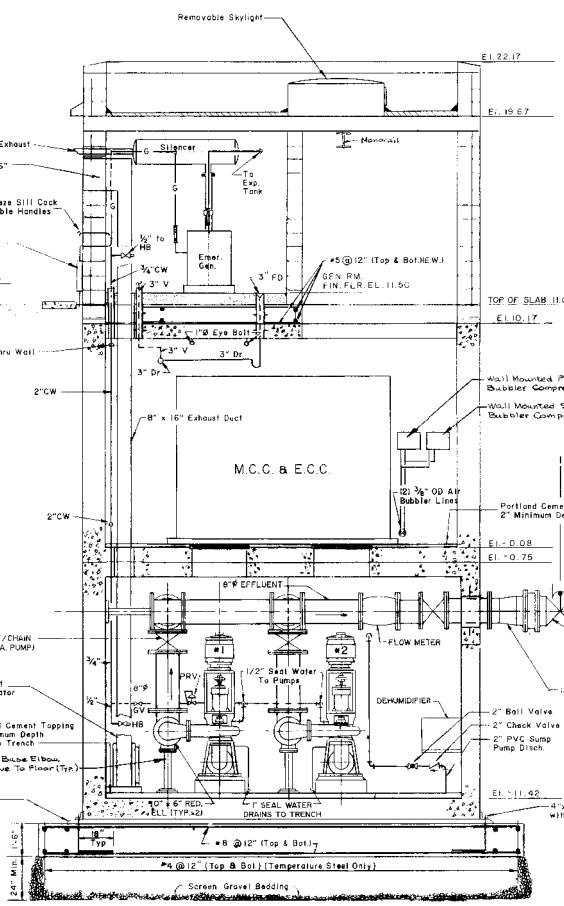
PUMP SCHEDULE		
No.	DESCRIPTION	ELEV.
1	INVERT INFLUENT SEWER	- 4.25
2	HIGH LEVEL ALARM	- 4.33
3	START LAG PUMP	- 4.81
4	START LEAD PUMP	- 5.33
5	STOP LAG PUMP	- 7.42
6	STOP LEAD PUMP	- 7.92
7	LOW LEVEL ALARM	- 8.42
8	BOTTOM BUBBLER TUBE	- 10.42



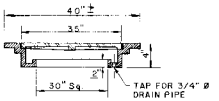
ELEVATION
WET WELL INLET (TYP. 2)



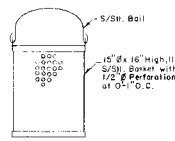
FRAME SECTION Y-Y



SECTION D/4
3/8"= 1'-0"

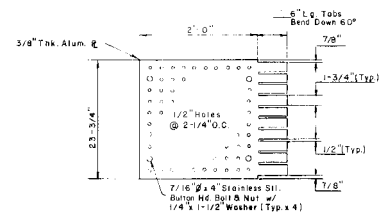


DETAIL
M.H. FRAME & LID
NO SCALE

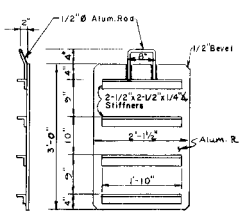


DETAIL
SCREENINGS BASKET
NO SCALE

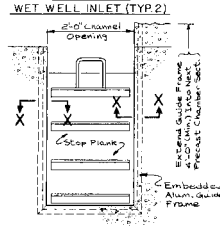
NOTE: PUMP STATION SHALL HAVE AN H2S SENSOR INSTALLED IN THE WET WELL AREA. THE CONTRACTOR SHALL PROVIDE THE NECESSARY ALARM CONTACTS IN THE RADIO TELEMETRY SYSTEM, AND PROVIDE THE ALARM LIGHTS AS SHOWN IN THE DETAILS & SCHEMATICS ON SHT. #8.


6" Lg. Tabs Bend Down 60°
2'-0"
3/8" Thk. Alum. ℄
7/8"
1-3/4" (Typ.)
1/2" Holes @ 2-1/4" O.C.
2'-3-3/4"
1/2" (Typ.)
7/8"
7/16" Ø x 4" Stainless Stl. Button Hd. Bolt & Nut w/ 1/4" x 1-1/2" Washer (Typ. x 4)

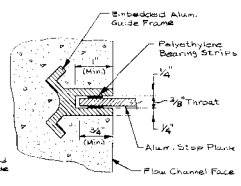
6/5 DRAIN PLATE DETAIL
NO SCALE



ALUMINUM STOP PLANK



ELEVATION
BYPASS INLET



FRAME SECTION X-X

7/415 ALUMINUM STOP PLANK & FRAME DETAILS
NO SCALE

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	KJL	03/96	BHJ		BHJ	03/96
1	REVISED T.O.S. TO 11.00 JAH 8/91		JOE	JAH	BHJ	8/91
0	ISSUED FOR APPROVAL RG 11/88		JOE	RG	JAH	1/89

PROJECT SUPERVISOR: APPROVED

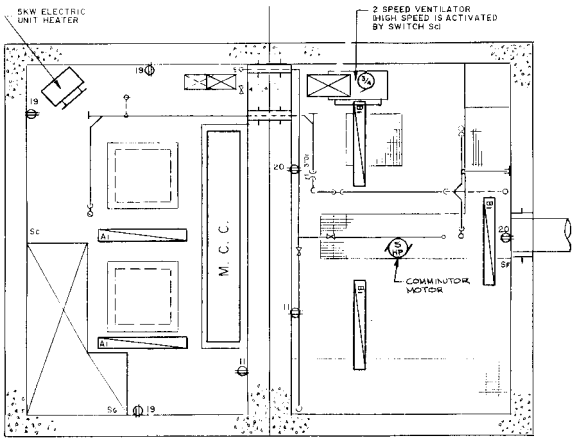
TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION

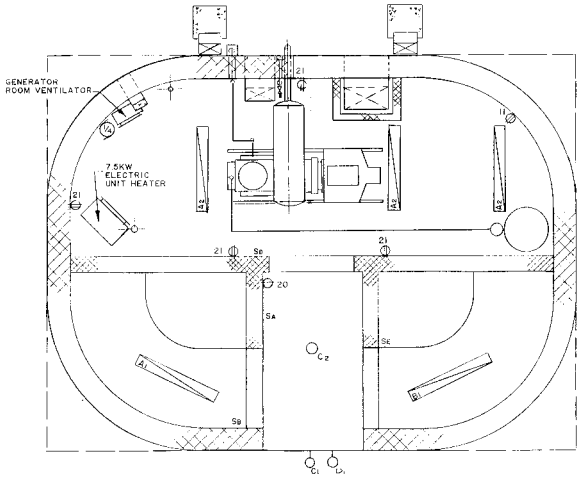
MECHANICAL
SECTIONS & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

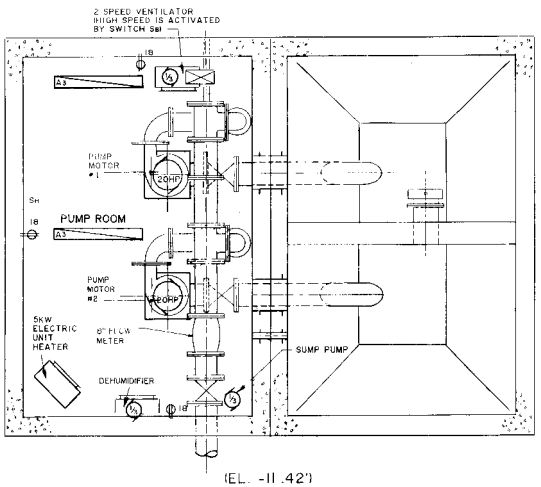
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 5 OF 28



(EL.-0.08')
PLAN-MID LEVEL
3/8"=1'-0"



(EL. 11.00')
PLAN-UPPER LEVEL
3/8"=1'-0"



(EL. -11.42')
PLAN-LOWER LEVEL
3/8"=1'-0"

LABEL	SWITCH	LOCATION		QTY	TYPE
		LEVEL	AREA		
C_2	S_A	UPPER LEVEL (EL. 11.00)	ENTRY	1	35 WATT H.P.S. SURFACE MOUNTED, SHIELDED MOISTURE & CORROSION RESISTANT
A_2	S_B		GENERATOR ROOM	3	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
A_1	S_B & S_C *		M.C.C. ROOM & STAIRWAY	1	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
B_1	S_E & S_F *		WET WELL STAIRWAY	1	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED EXPLOSION PROOF, CORROSION RESISTANT
C_1	—		FRONT DOOR OUTSIDE	1	35 WATT H.P.S. BRACKET MTD. WEATHER PROOF, VANDAL & CORROSION RESISTANT, PHOTOELEC. ACTUATED
	S_C & S_B	MID LEVEL (EL. -0.08)	M.C.C. AREA	3	1-40 WATT LAMP, SURFACE MOUNTED, EXPLOSION PROOF, CORROSION RESISTANT
B_1	S_E & S_F		WET WELL	3	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED EXPLOSION PROOF, CORROSION RESISTANT
	S_G & S_H	LOWER LEVEL (EL. -11.42)	PUMP ROOM	3	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
D_1	AUTOMATIC	UPPER LEVEL (11.00)	ABOVE FRONT ENTRANCE	1	1-100 WATT RED LAMP, SURFACE MTD., WEATHER PROOF, VANDAL & CORROSION RESISTANT

* LIGHT SWITCH ACTIVATES HIGH SPEED ON VENTILATOR

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	KJL	04/96	DHJ		bh	04/96
	RECORD DRAWING					
2	JAH	8/91	JOE	JAH	BHJ	8/91
	REVISED FLR. ELEV.					
1	WM	5/90	JOE		JAH	5/90
	GENERAL REVISIONS					
0	RG	1/89	JOE	RG	JAH	1/89
	ISSUED FOR APPROVAL					

PROJECT SUPERVISOR APPROVED

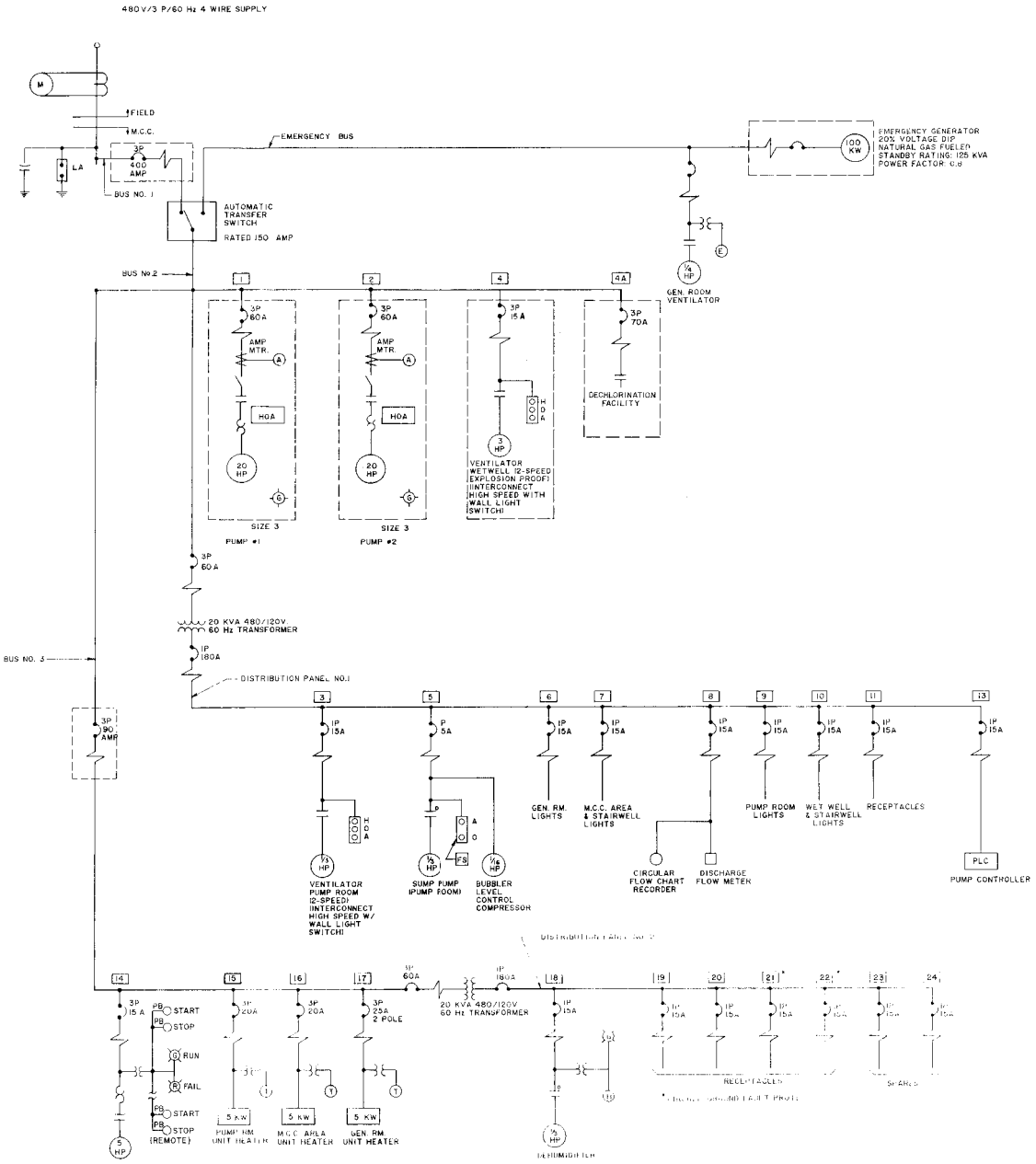
TOWN OF SEABROOK, NEW HAMPSHIRE

RTE. 286 PUMP STATION.

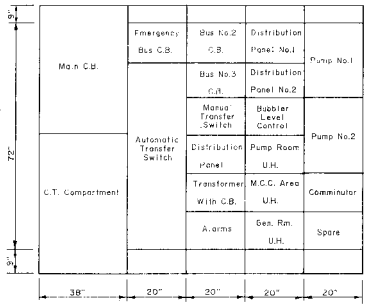
ELECTRICAL
PLANS & DETAIL

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 6 OF 28



SINGLE LINE DIAGRAM



MOTOR CONTROL CENTER

NOTE :

1) CONDUCTORS NOT SPECIFIED SHALL BE AT LEAST NO.12 (COPPER).
2) CONTROL WIRES & CONDUIT FROM THE TRANSFER SWITCH TO THE GENERATOR SHALL BE PROVIDED PER RECOMMENDATIONS OF THE TRANSFER SWITCH MFGR. TRANSFER SWITCH SHALL HAVE BUILT IN CIRCUIT BREAKER & MAGNETIC TRIP DEVICE.
3) THERMOSTATS & HUMIDISTATS SHALL BE LOCATED ON THE WALL FOR MAXIMUM EFFICIENCY.
4) ALL WIRE SIZES & CIRCUIT BREAKER SIZES WITHIN THE PUMP STATION ARE SUBJECT TO THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS & ANY APPLICABLE CODES AT THE TIME OF INSTALLATION.
5) 480 V/3P/60Hz SHALL BE SUPPLIED TO THE SEWERAGE PUMPS.

LEGEND-ELECTRICAL

- PUSH BUTTON START
- PUSH BUTTON STOP OR RESET
- LIMIT SWITCH
- 2 WIRE / 3 WIRE } LIGHT CIRCUITS
- FUSE
- SURGE CAPACITOR
- LA LIGHTNING ARRESTOR
- N.C. CONTACT
- GROUND
- CIRCUIT BREAKER
- MAGNETIC TRIP DEVICE
- THERMAL TRIP DEVICE
- CT CURRENT TRANSFORMER
- CONTROL TRANSFORMER / PT= POTENTIAL TRANSFORMER
- STEP DOWN TRANSFORMER
- A = AMMETER; CR=CONTROL RELAY, TR= TIME DELAY RELAY M, R, S = CONTACTORS; SV= SOLENOID VALVE, LR= LEVEL CONTROL RELAY
- R LIGHT: R= RED; G= GREEN; Y= YELLOW; W= WHITE
- STARTER WITH SIZE INDICATOR
- N.O. CONTACT
- OTT OVER TEMPERATURE THERMAL DEVICE
- S SWITCH / S E EXPLOSION PROOF SWITCH
- S, S1, S2 TOGGLE SWITCH / 3-WAY SWITCH
- DUPLEX RECEPTACLE / E EXPLOSION PROOF / W WEATHER PROOF
- J JUNCTION BOX
- T THERMOSTAT
- H HUMIDISTAT
- PB PUSH BUTTON, START OR STOP
- H O A SELECTOR SWITCH, HOA= HAND, OFF, AUTO; FOR= FORWARD, OFF, REVERSE
- H O SELECTOR SWITCH HO= HAND, OFF
- L LEVEL SWITCH - BUBBLER CONTROL
- CB CIRCUIT BREAKER
- E/PS ELAPSED TIME METER / FLOAT SWITCH

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	REVISE NOTE 5, ADD DECHLOR. FACILITY	DT	9/94	BHJ	BHJ	BHJ	9/94
2	ADD NOTE 5	DRT	3/94	BHJ	BHJ	BHJ	3/94
1	GEN. REVISIONS	WM	5/90	JOE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	11/88	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: John C. Stearns — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

ROUTE 286 PUMP STATION

ELECTRICAL SCHEMATIC

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

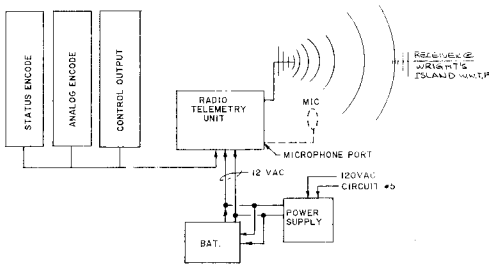
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 7 OF 28

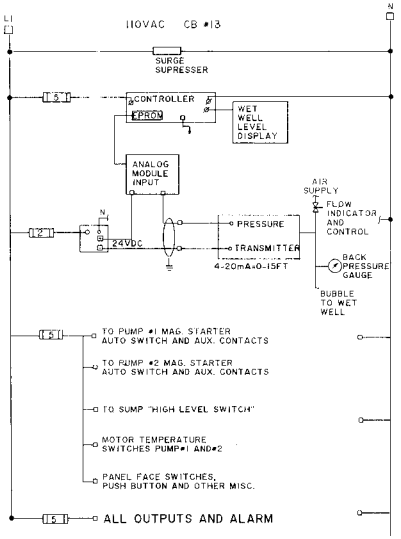
H.H. SULLIVAN, INC. 826687

GENERAL NOTES

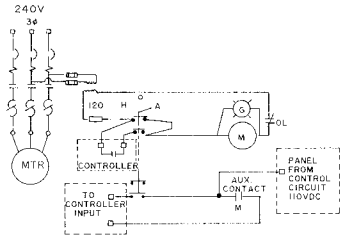
1) SUBSURFACE UTILITY LOCATIONS ARE BASED ON LIMITED INVESTIGATIONS OF EXISTING RECORDS AND ARE NOT WARRANTED TO BE CORRECT.
2) THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AT THE TIME OF CONSTRUCTION WITH THE VARIOUS UTILITY COMPANIES INVOLVED OR PRESUMED TO BE INVOLVED, AND MAKE TEST PIT EXCAVATIONS AS REQUIRED OR DIRECTED
3) ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD & UNDERGROUND UTILITIES CROSSING OR NEAR TRENCH EXCAVATIONS OR RELATED WORK, SHALL BE PROTECTED & SUPPORTED BY THE CONTRACTOR THROUGH OUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH FACILITIES OR FEATURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
4) ALL WORK TO BE IN CONFORMANCE WITH TOWN OF SEABROOK STANDARDS FOR WATER, SEWER AND DRAINAGE CONSTRUCTION (COPIES AVAILABLE AT THE TOWN OFFICES), WHERE THERE ARE CONFLICTS, STATE STANDARDS SHALL PREDOMINATE.
5) ALL WATER MAIN REPAIRS WILL BE PERFORMED BY THE TOWN OF SEABROOK AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
6) WHERE WORK REQUIRES RELOCATION, REPAIR OR CONNECTION TO EXISTING GAS LINES, THE WORK SHALL BE PERFORMED BY THE GAS COMPANY & SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
7) WHERE DAMAGE IS INCURRED ON TELEPHONE CABLES, EITHER BURIED OR OVERHEAD, REPAIRS SHALL BE MADE BY THE TELEPHONE COMPANY AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
8) WHERE DAMAGE IS INCURRED ON BURIED OR OVERHEAD ELECTRIC WIRES, REPAIRS SHALL BE MADE BY THE ELECTRIC COMPANY & PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.



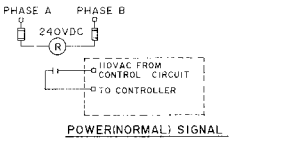
REMOTE TRANSMITTER/RECEIVER



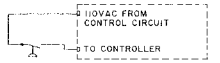
CONTROL-POWER CIRCUIT



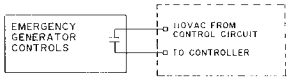
TYPICAL OF EACH PUMP



POWER(NORMAL) SIGNAL

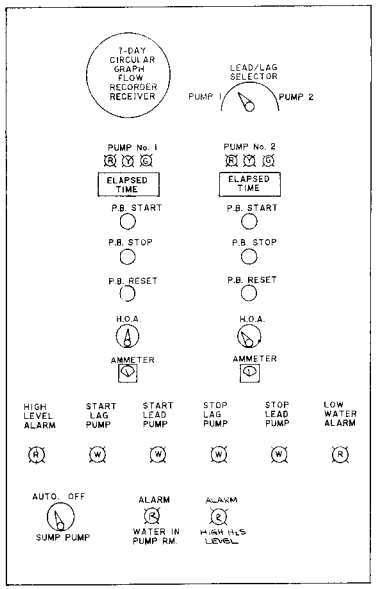


SUMP LEVEL ALARM SWITCH



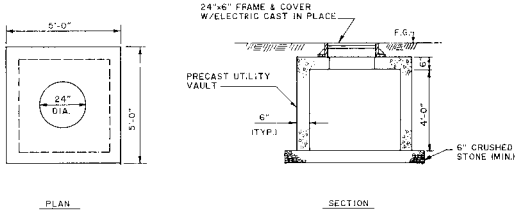
GENERATOR ON SIGNAL

MISC. CONTROL SCHEMATICS



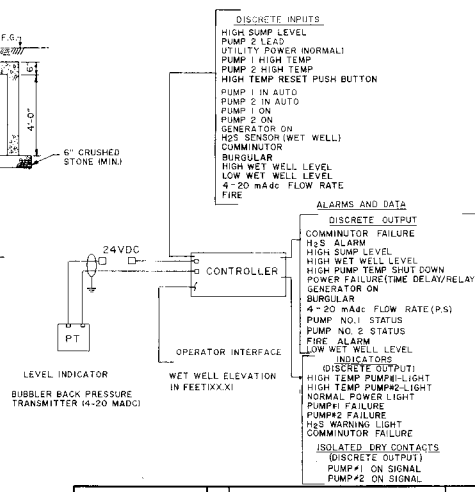
CONTROL PANEL

NOT TO SCALE



TYPICAL ELECTRICAL MANHOLE

NO SCALE



CONTROL ONE LINE DIAGRAM

ISSUE NO	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	DT	9/94	JEC	BHJ	BHJ	9/94
	ADD DECHLOR FACILITY ALARMS					
1	DRT	3/94	BHJ	BHJ	BHJ	3/94
	REVISE CONTROL ONE LINE DIAGRAM					
0	RG	1/89	JDE	RG	JAH	1/89
	ISSUED FOR APPROVAL					

PROJECT SUPERVISOR: John B. Hagan — APPROVED

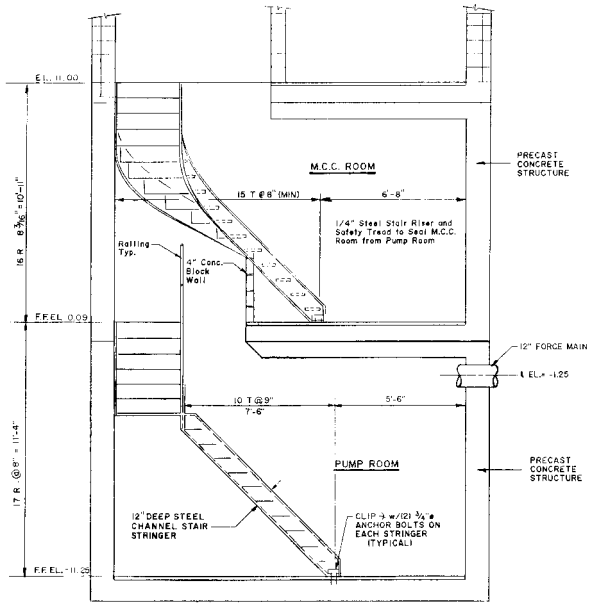
TOWN OF SEABROOK, NEW HAMPSHIRE

ROUTE 286 PUMP STATION

ELECTRICAL DETAILS & GENERAL NOTES

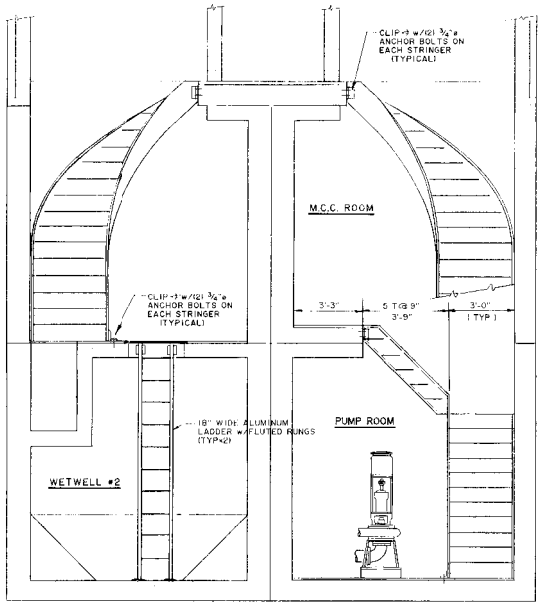
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 8 OF 28


EL. 11.00
M.C.C. ROOM
15 T @ 8" (MIN)
6'-8"
PRECAST CONCRETE STRUCTURE
1/4" Steel Stair Riser and Safety Tread to Seal M.C.C. Room from Pump Room
Railing Typ.
4" Conc. Block Wall
16 R @ 8 3/16" = 10'-1"
F.F.EL. 0.09
12" FORCE MAIN
℄ EL. = -1.25
10 T @ 9"
7'-6"
5'-6"
17 R @ 8" = 11'-4"
PUMP ROOM
PRECAST CONCRETE STRUCTURE
12" DEEP STEEL CHANNEL STAIR STRINGER
CLIP ∠ w/(2) 3/4"ø ANCHOR BOLTS ON EACH STRINGER (TYPICAL)
F.F.EL. -11.25

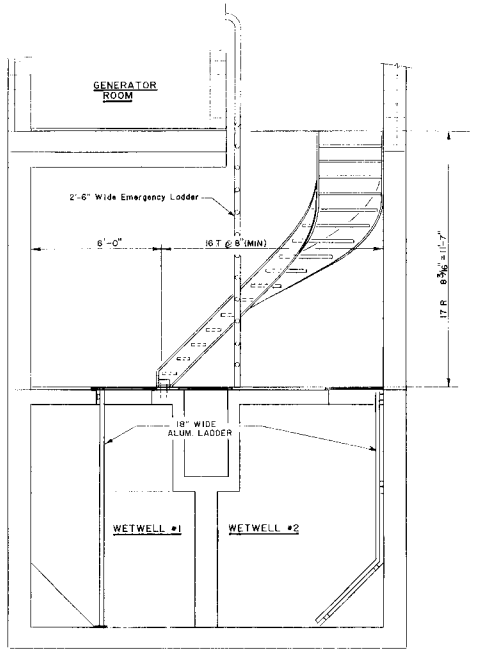
SECTION THRU STAIRS

3/8" = 1'-0"


CLIP ∠ w/(2) 3/4"ø ANCHOR BOLTS ON EACH STRINGER (TYPICAL)
M.C.C. ROOM
CLIP ∠ w/(2) 3/4"ø ANCHOR BOLTS ON EACH STRINGER (TYPICAL)
3'-3"
5 T @ 9"
3'-9"
3'-0" (TYP.)
18" WIDE ALUMINUM LADDER w/FLUTED RUNGS (TYP.)
PUMP ROOM
WETWELL #2

SECTION THRU STAIRS

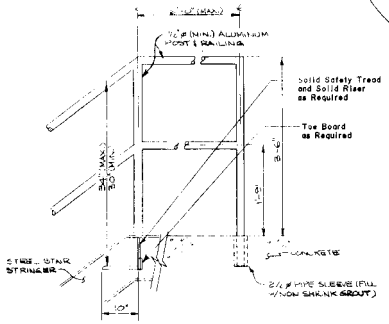
3/8" = 1'-0"



SECTION THRU STAIRS

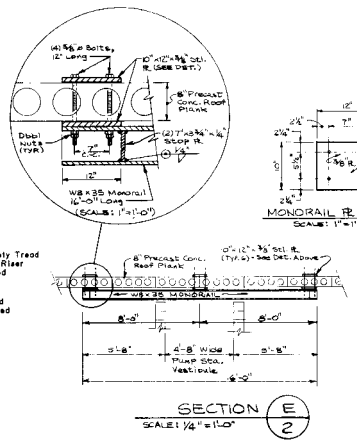
3/8" = 1'-0"

NOTE:
1) ALL RAILINGS SHALL BE WELDED ALUMINUM, GROUND SMOOTH w/ 4 COATS MIL (HACRYLIC) LACQUER
2) RAILING AROUND OPENINGS SHALL BE 42" IN HEIGHT



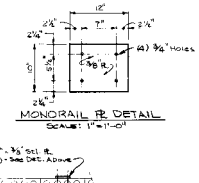
STAIR RAILING DETAILS

NO SCALE



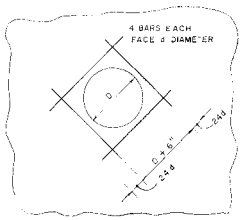
SECTION E/2

SCALE: 1/4" = 1'-0"



MONORAIL PL DETAIL

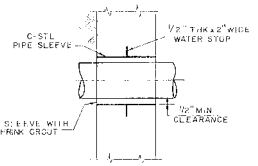
SCALE: 1" = 1'-0"



NOTE: d = 1 SIZE LARGER THAN LARGEST BAR IN NORMAL SURROUNDING STEEL

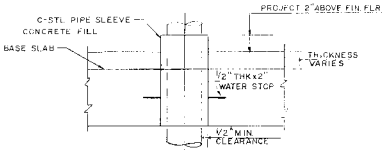
ADDITIONAL REINFORCING AT WALL OPENINGS 8" DIA. AND LARGER

NO SCALE



TYPICAL WALL PENETRATION

NO SCALE



TYPICAL INTERIOR FLOOR PENETRATION

NO SCALE

NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	GEN. REVISIONS				SLJ	12/92
	SB	2/92	MM	BHJ		
2	REVISED FLR. ELEV.				BHJ	8/91
	JAH	8/91	JOE	JAH		
1	GENERAL REVISIONS				JAH	5/90
	WM	5/90	JOE			
0	ISSUED FOR APPROVAL				JAH	1/89
	RG	1/89	JOE	RG		

PROJECT SUPERVISOR: John H. Haynes

APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

ROUTE 286 PUMP STATION

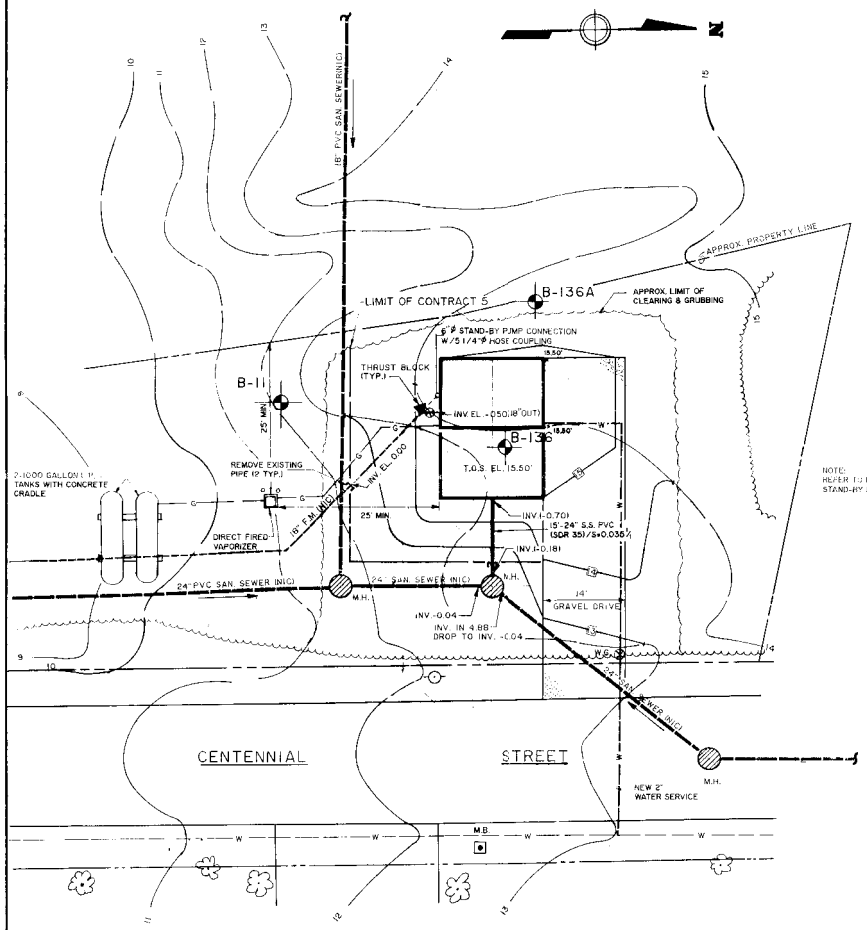
MISC. DETAILS

Jones & Beach / Stearns & Wheler

JOINT VENTURE – CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

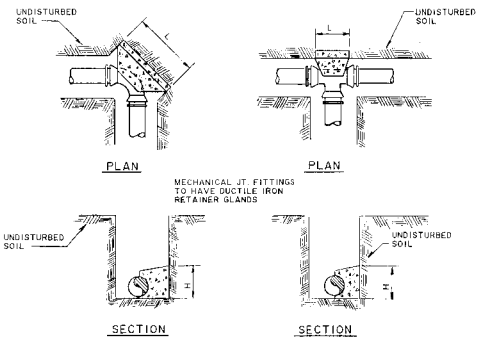
JOB NO. 8704/1444 CONTRACT NO. V SHEET 9 OF 28



NOTE:
REFER TO DETAIL 2 OF 11 SHEET FOR TYPICAL STAND-BY PUMP CONNECTION.

SITE PLAN OF CENTENNIAL ST. PUMP STATION

SCALE: 1" = 10'



THRUST BLOCK DETAILS

NO SCALE

CONCRETE ANCHOR DIMENSIONS

BENDS & TEES - 250 P.S.I.

PIPE SIZE (INCHES)	TEE OR TAP SLEEVE H	TEE OR TAP SLEEVE L	ALL BENDS H	ALL BENDS L
6"	1'-6"	2'-6"	2'-0"	2'-6"
8"	1'-6"	3'-6"	2'-6"	3'-6"
10"	2'-6"	3'-6"	3'-0"	4'-6"
12"	3'-6"	3'-6"	3'-6"	5'-0"
16"	4'-0"	5'-0"	4'-6"	6'-6"
18"	5'-0"	5'-6"	5'-6"	7'-0"

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
5	RELOCATE GAS TANK & VAPORISER	WK	8/95	JEC	BHJ	BHJ	8/95
4	ADD GAS TANKS & VAPORISER	WK	8/95	JEC	BHJ	BHJ	8/95
3	ADD INV. EL. 18" F.M.	WK	1/95	JEC	BHJ	BHJ	1/95
2	ADD STAND-BY PUMP CONNECTION	JAH	5/91		JAH	BHJ	5/91
1	SITE PLAN REVISED	WM	5/90	JOE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	1/89	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK / CENTENNIAL STREET PUMP STATION

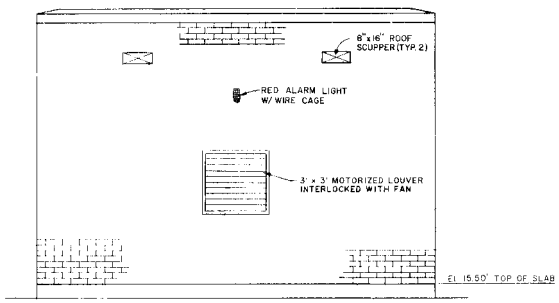
SITE PLAN

Jones & Beach / Stearns & Wheler

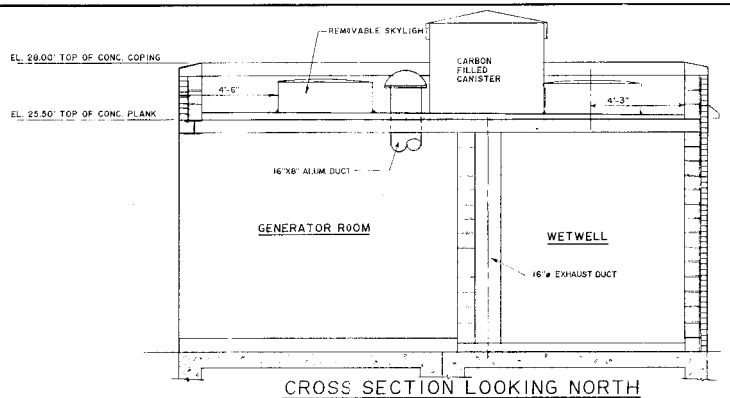
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

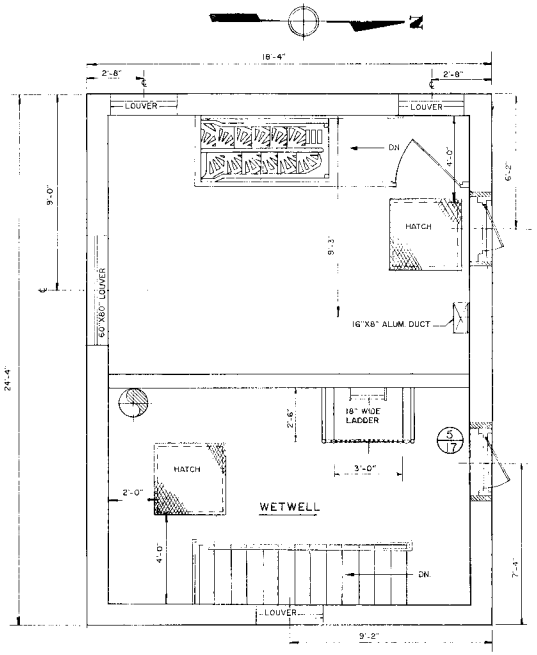
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 10 OF 28



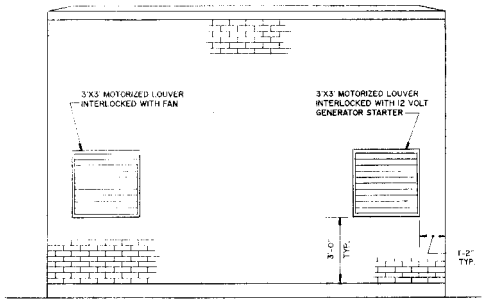
EAST ELEVATION
3/8"=1'-0"



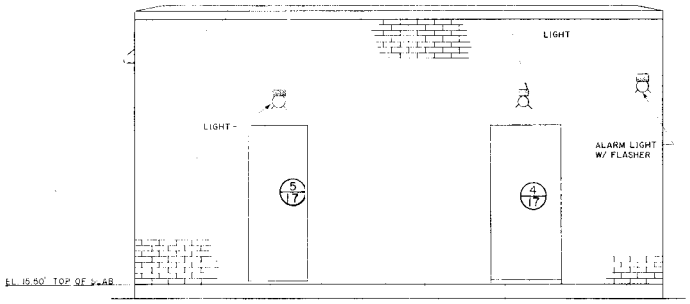
CROSS SECTION LOOKING NORTH
3/8"=1'-0"



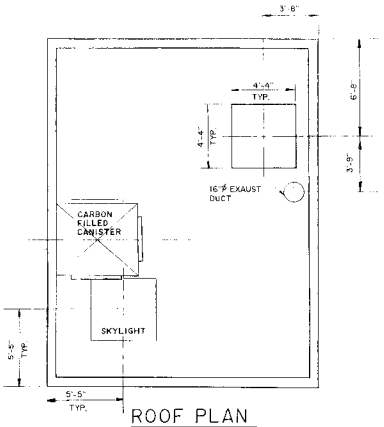
PLAN
3/8"=1'-0"


3'X5' MOTORIZED LOUVER INTERLOCKED WITH FAN
3'X3' MOTORIZED LOUVER INTERLOCKED WITH 12 VOLT GENERATOR STARTER
3'-0" TYP.
1'-2" TYP.

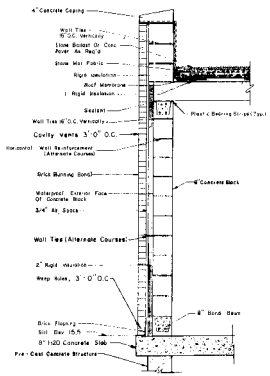
WEST ELEVATION
3/8"=1'-0"



NORTH ELEVATION
3/8"=1'-0"



ROOF PLAN
1/4"=1'-0"



EXTERIOR WALL SECTION
1/2" = 1'-0"

NOTE:

1. ROOF SHALL BE DESIGNED TO SUPPORT 100 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD PLUS A SUPERIMPOSED POINT LOAD OF ABOUT 4000 POUNDS FOR THE SPENT CARBON CANISTER
2. FLOOR(S) SHALL BE DESIGNED TO SUPPORT 300 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
3. THE CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
6	KJL	03/96	BHJ		BHJ	03/96
	GENERAL REVISIONS					
5	WK	8/95	JEC	BHJ	BHJ	8/95
4	ADDED EXTERIOR WALL SECTION,GEN.REV.					
	DT	9/94	BHJ	BHJ	BHJ	9/94
3	GEN. REVISIONS					
	GD	2/92	WM	BHJ	BHJ	12/92
2	GENERAL REVISIONS					
	WM	6/92	RBJ		BHJ	6/92
1	GENERAL REVISIONS					
	WM	5/90	JOE		JAH	5/90
0	ISSUED FOR APPROVAL					
	RG	1/89	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK/CENTENNIAL STREET PUMP STATION

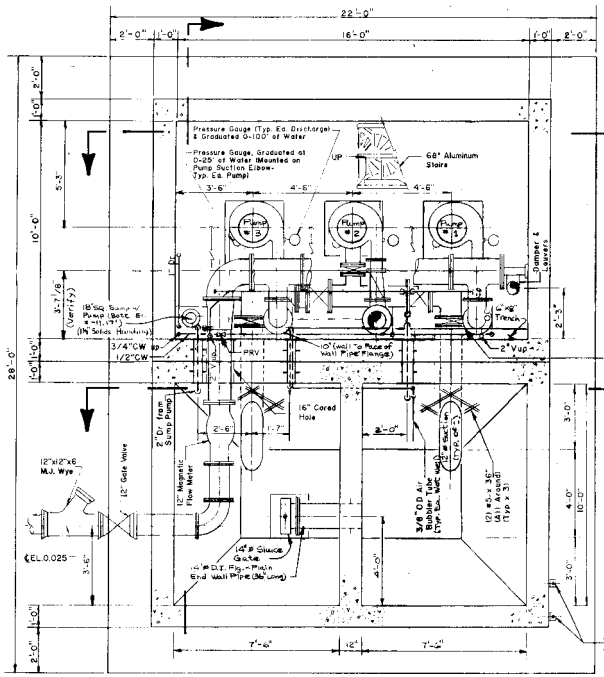
ARCHITECTURAL

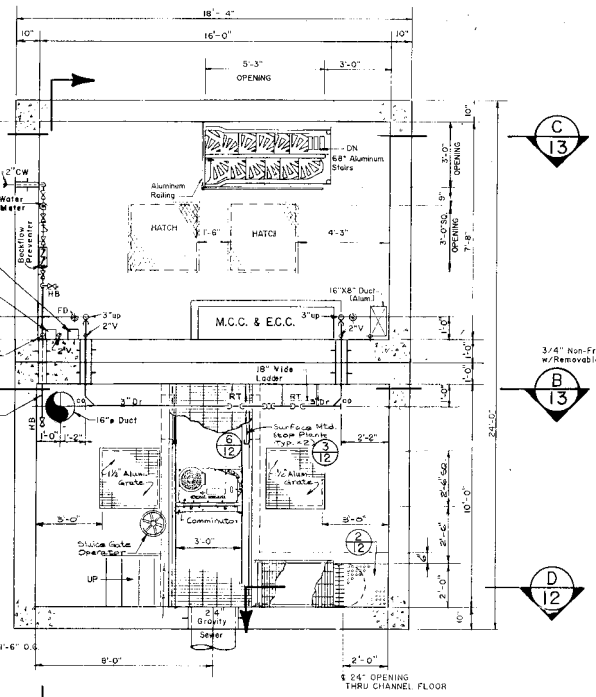
PLANS & ELEVATIONS

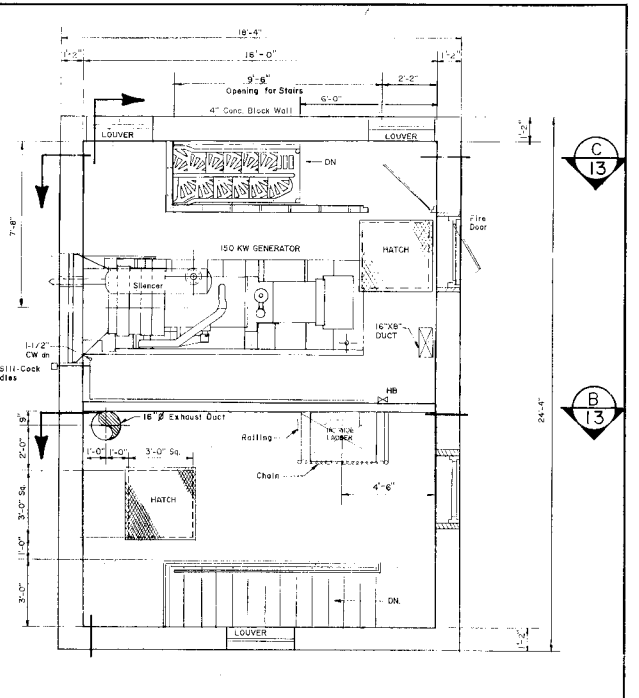
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

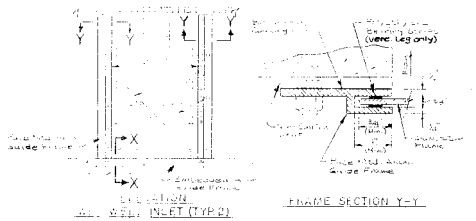
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 11 OF 28

H. SULLIVAN, INC. 508387

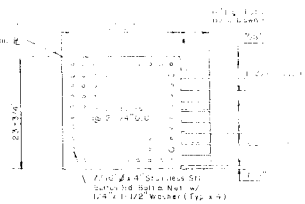

Pressure Gauge (Typ. Ea. Discharge & Graduated 0-100' of Water
Pressure Gauge, Graduated at 0-25' of Water Mounted on Pump Suction Elbow-Typ. Ea. Pump
68" Aluminum Stairs
Pump #1
Pump #2
Pump #3
Hatch
Louver & Louvers
16" Cored Hole
12" Gate Valve
2" Magnetic Flow Meter
2 Dr. Trash Sump Pump
12"x12"x6" M.J. Wye
14"ø Sluice Gate
16"ø D.I. Fig.-Main End Wall Pipe (36" Long)
4"x4"x5/8" Lg. Galvanized Clip Angles w/3/4"ø Anchor Bolts @ 1'-6" O.C. (Typical All Around)
(EL. -10.50')
PLAN-LOWER LEVEL
3/8"=1'-0"







ALUMINUM STOP PLANK & FRAME DETAILS
NO SCALE



GRATING ANGLE DETAIL
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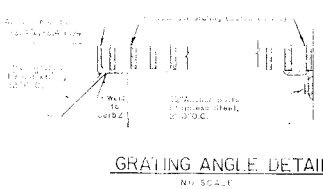
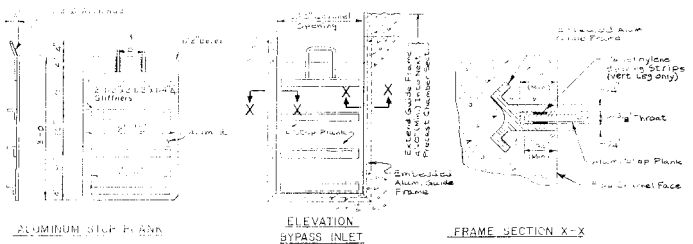
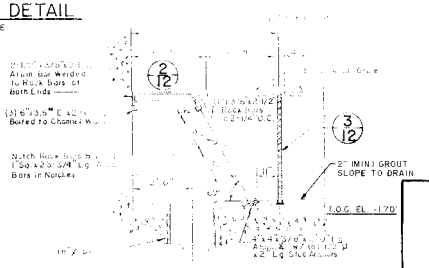


DRAIN PLATE DETAIL
NO SCALE



ALUMINUM STOP PLANK & FRAME DETAILS
NO SCALE



SECTION
NO SCALE

8	RECORD DRAWING					BHJ	03/96
	KJL	03/96	BHJ				
7	GENERAL REVISIONS					BHJ	8/95
	WK	8/95	JEC	BHJ			
6	REVISED GEN. SET					BHJ	9/94
5	GEN. REVISIONS					BHJ	2/92
	BB	12-92	JAH	BHJ			
4	REVISED UPPER LEVEL						
	WM	7/92	RBJ				
	MOVED WET WELL PARTITION & REVISED PUMP SUCT.						
	JOE	11/90					
3	GEN. REVISIONS					JAH	5/90
	WM	5/90	JOE				
2	GEN. REVISIONS					JAH	5/90
	WM	5/90	JOE				
1	GEN. REVISIONS					JAH	1/89
	WM	5/90	JOE				
0	ISSUED FOR APPROVAL					JAH	1/89
	RG	1/89	JOE	RG			
RELEASE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE	

PROJECT SURVEYOR — APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

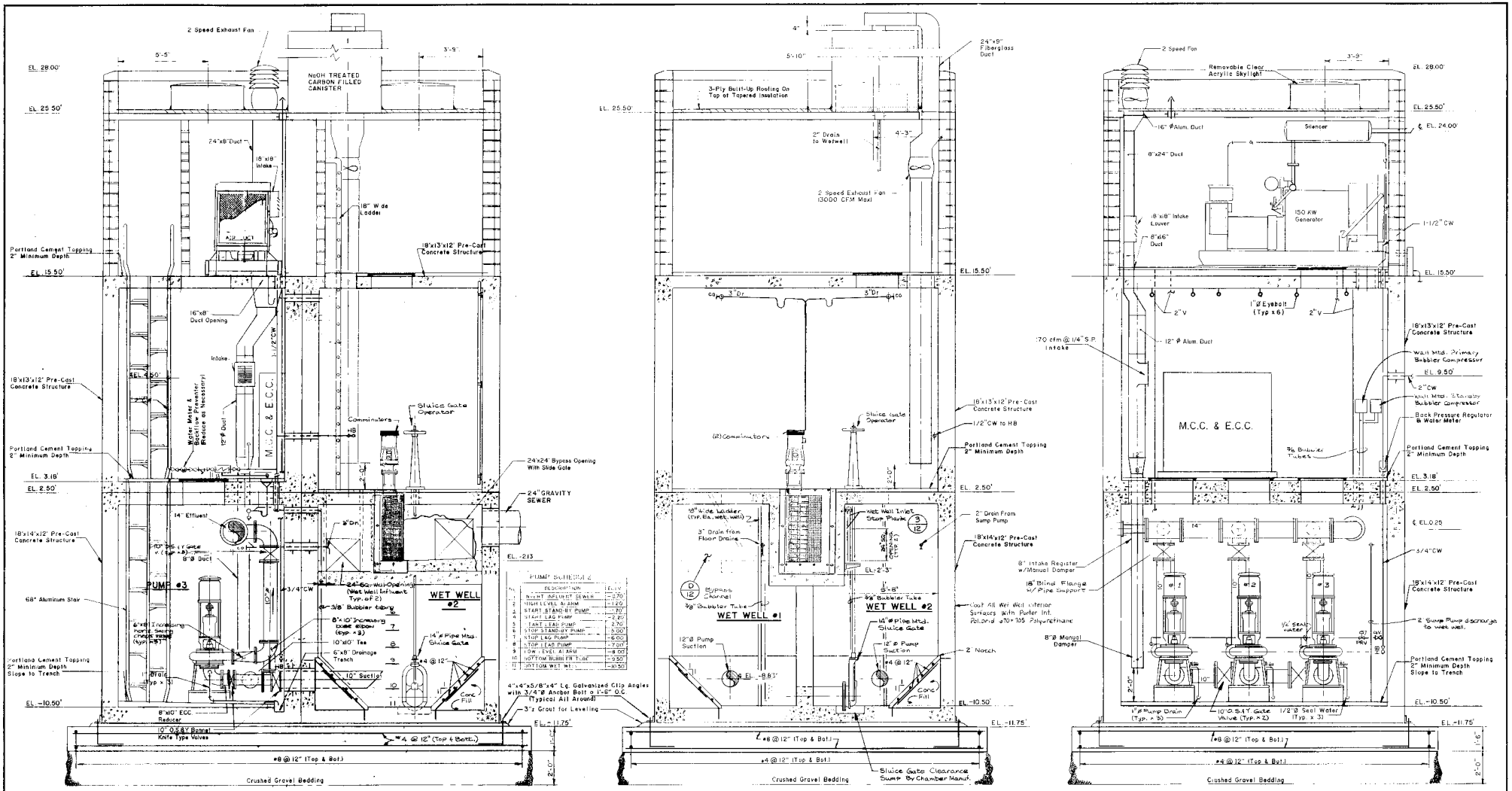
CAINS BROOK/CENTENNIAL ST. PUMP STA.

MECHANICAL
PLANS & DETAIL

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 12 OF 28

SULLIVAN, INC. 868387

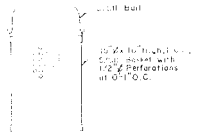


SECTION A/13
3/8"=1'-0"

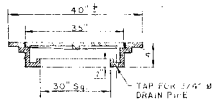
SECTION B/13
3/8"=1'-0"

SECTION C/13
3/8"=1'-0"

NOTE: PUMP STATION SHALL HAVE AN H2S SENSOR INSTALLED IN THE WET WELL AREA. THE CONTRACTOR SHALL PROVIDE THE NECESSARY ALARM CONTACTS IN THE RADIO TELEMETRY SYSTEM AND PROVIDE THE ALARM LIGHTS AS SHOWN IN THE DETAILS & SCHEMATICS ON SHEET 15



DETAIL
SCREENINGS BASKET
NO SCALE



DETAIL
M.H. FRAME & LID
NO SCALE

MECHANICAL NOTES

8	RECORD DRAWING					BHJ	03/96
	K.L.	03/96	BHJ				
	GENERAL REVISIONS					BHJ	8/95
7	WK	8/95	JEC		BHJ		
6	REVISE GEN. SET					BHJ	9/94
5	GEN'L REVISIONS					BHJ	1/94
	WM	12/93		BHJ			
4	GEN'L REVISIONS						
	WM	7/93	JOE				
3	MOVED WET WELL PARTITION / REVISED PUMP SYST.						
	JOE	1/93					
2	GEN. REVISIONS					JAH	9/90
	WM	9/90	JOE				
1	REV. ELEVATIONS					JAH	5/90
	WM	5/90	JOE				
0	ISSUED FOR APPROVAL						
	RG	1/89	JOE	RG		JAH	1/89
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE	

PROJECT SUPERVISOR: John A. Hughes
APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

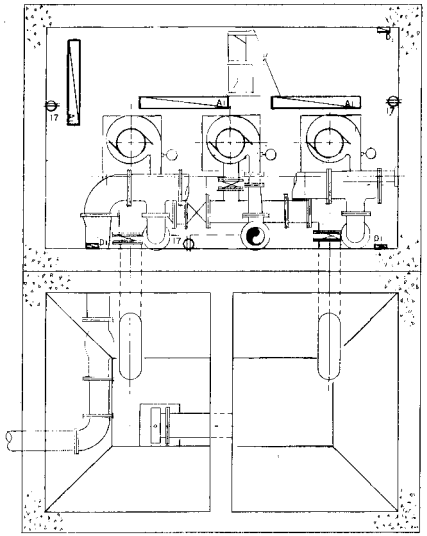
CAINS BROOK/CENTENNIAL STREET PUMP STATION

MECHANICAL
SECTIONS & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 13 OF 28

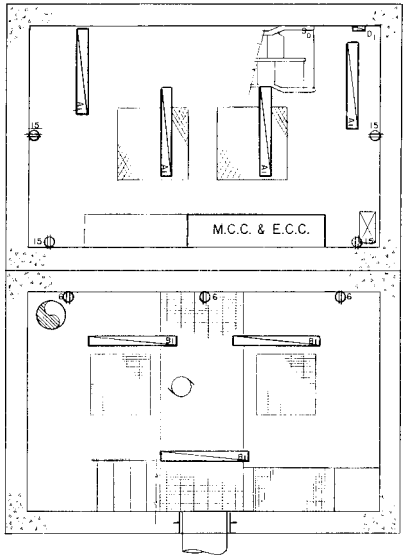
H.N. SULLIVAN, INC. 800387



(EL.-10.50')

PLAN-LOWER LEVEL

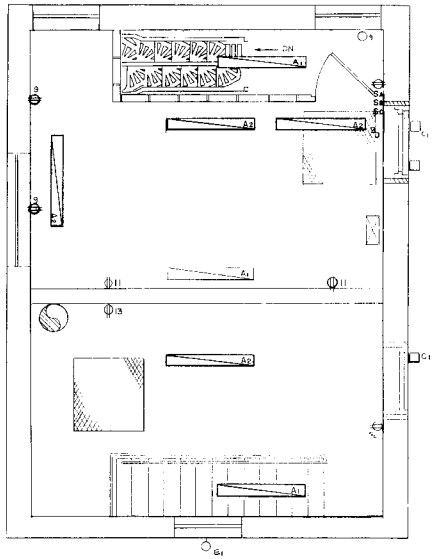
3/8"=1'-0"



(EL.+2.50')

PLAN-MID LEVEL

3/8"=1'-0"



(EL.15.50')

PLAN-UPPER LEVEL

3/8"=1'-0"

LABEL	SWITCH	LOCATION LEVEL	LOCATION AREA	QTY	TYPE
A1	Sa	UPPER LEVEL (EL.15.50)	GENERATOR ROOM	2	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
A2	Sa		GENERATOR ROOM	3	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
C1	—		OUTSIDE	2	35 WATT H.P.S.,WALL MOUNT,WEATHER PROOF,VANDAL & CORROSION RESISTANT, PHOTOELEC. ACTUATED
A1	Sa	MID LEVEL (EL.+2.50)	MOTOR CONTROL	4	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
D1	Sa		STAIRWELL	1	35 WATT H.P.S., WALL MOUNTED, MOISTURE & CORROSION RESISTANT
B1	Sc		WET WELL	3	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED EXPLOSION PROOF, CORROSION RESISTANT
A1	Sb	LOWER LEVEL (EL.-10.50')	PUMP ROOM	3	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
D1	Sb		STAIRWELL	1	35 WATT H.P.S., WALL MOUNTED, MOISTURE & CORROSION RESISTANT
E1	AUTOMATIC	UPPER LEVEL	OUTSIDE	1	1-100 WATT RSD LAMP, WALL MOUNTED, WEATHER PROOF, VANDAL & CORROSION RESISTANT
A1	Se	UPPER LEVEL (EL.15.50)	STORAGE ROOM	1	1-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT.
A2	Se		STORAGE ROOM	1	2-40 WATT LAMP, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT.

RECORD DRAWING

4	RECORD DRAWING	KJL	03/96	BHJ		BHJ	03/96
3	[illegible]	[illegible]	[illegible]	[illegible]		[illegible]	[illegible]
2	GENERAL REVISIONS	DT	7/94	BHJ	BHJ	BHJ	9/94
1	REVISED LIGHTING	WM	7/92	RBJ	WM	JAH	7/92
0	ISSUED FOR APPROVAL	RG	1/89	JOE	RG	JAH	1/89
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: [illegible] APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK/CENTENNIAL ST. PUMP STA.

ELECTRICAL

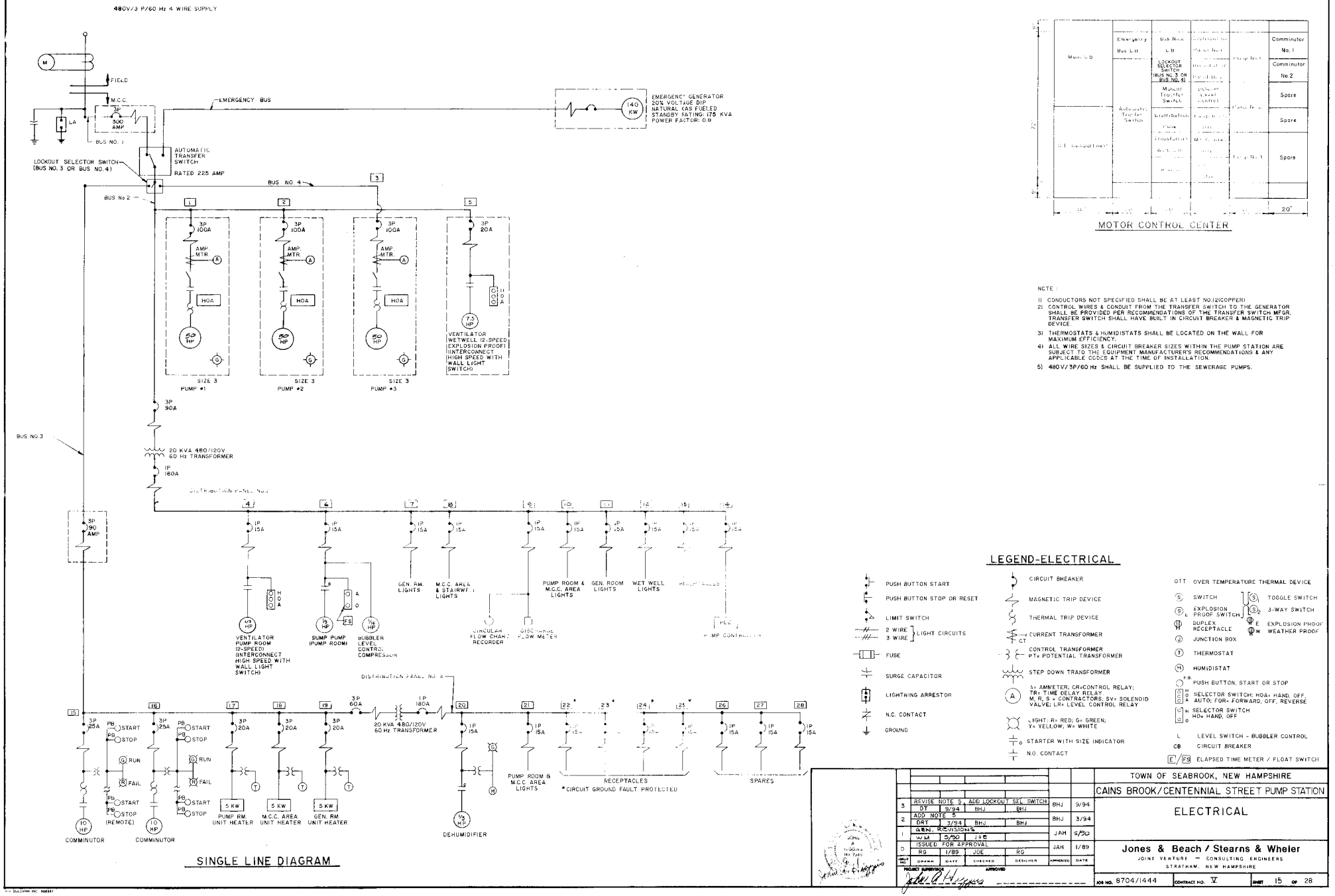
PLANS & DETAIL

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 14 OF 28



SINGLE LINE DIAGRAM

MOTOR CONTROL CENTER

NOTE :

1) CONDUCTORS NOT SPECIFIED SHALL BE AT LEAST NO.12(COPPER).
2) CONTROL WIRES & CONDUIT FROM THE TRANSFER SWITCH TO THE GENERATOR SHALL BE PROVIDED PER RECOMMENDATIONS OF THE TRANSFER SWITCH MFGR. TRANSFER SWITCH SHALL HAVE BUILT IN CIRCUIT BREAKER & MAGNETIC TRIP DEVICE.
3) THERMOSTATS & HUMIDISTATS SHALL BE LOCATED ON THE WALL FOR MAXIMUM EFFICIENCY.
4) ALL WIRE SIZES & CIRCUIT BREAKER SIZES WITHIN THE PUMP STATION ARE SUBJECT TO THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS & ANY APPLICABLE CODES AT THE TIME OF INSTALLATION.
5) 480V/3P/60 Hz SHALL BE SUPPLIED TO THE SEWERAGE PUMPS.

LEGEND-ELECTRICAL

- PUSH BUTTON START
- PUSH BUTTON STOP OR RESET
- LIMIT SWITCH
- 2 WIRE / 3 WIRE } LIGHT CIRCUITS
- FUSE
- SURGE CAPACITOR
- LIGHTNING ARRESTOR
- N.C. CONTACT
- GROUND
- CIRCUIT BREAKER
- MAGNETIC TRIP DEVICE
- THERMAL TRIP DEVICE
- CT CURRENT TRANSFORMER
- CONTROL TRANSFORMER / PT= POTENTIAL TRANSFORMER
- STEP DOWN TRANSFORMER
- (A) A= AMMETER; CR=CONTROL RELAY; TR= TIME DELAY RELAY M, R, S = CONTACTORS; SV= SOLENOID VALVE; LR= LEVEL CONTROL RELAY
- LIGHT; R= RED; G= GREEN; Y= YELLOW; W= WHITE
- STARTER WITH SIZE INDICATOR
- N.O. CONTACT
- OTT OVER TEMPERATURE THERMAL DEVICE
- (S) SWITCH; (S)L EXPLOSION PROOF SWITCH; (S)1, (S)2 3-WAY SWITCH; TOGGLE SWITCH
- DUPLEX RECEPTACLE; E EXPLOSION PROOF; W WEATHER PROOF
- (J) JUNCTION BOX
- (T) THERMOSTAT
- (H) HUMIDISTAT
- PB PUSH BUTTON, START OR STOP
- SELECTOR SWITCH; HOA= HAND, OFF, AUTO; FOR= FORWARD, OFF, REVERSE
- SELECTOR SWITCH HO= HAND, OFF
- L LEVEL SWITCH - BUBBLER CONTROL
- CB CIRCUIT BREAKER
- E/FS ELAPSED TIME METER / FLOAT SWITCH

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	REVISE NOTE 5, ADD LOCKOUT SEL. SWITCH	DT	9/94	BHJ	BHJ	BHJ	9/94
2	ADD NOTE 5	DRT	3/94	BHJ	BHJ	BHJ	3/94
1	GEN. REVISIONS	WH	5/90	JAE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	1/89	JOE	RG	JAH	1/89

PROJECT SUPERVISOR: John A. Haynes — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK/CENTENNIAL STREET PUMP STATION

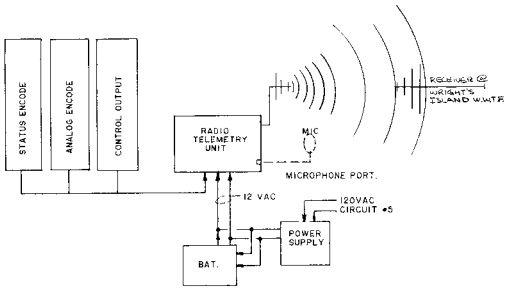
ELECTRICAL

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

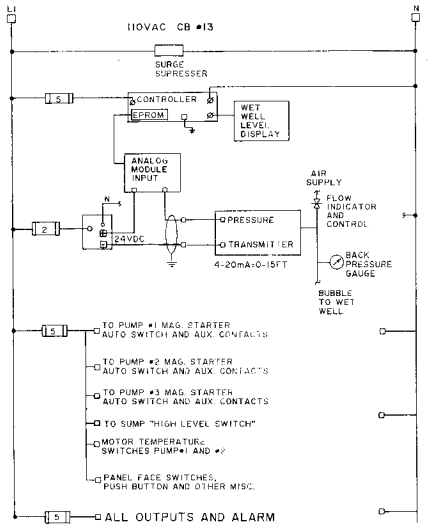
JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 15 OF 28

GENERAL NOTES

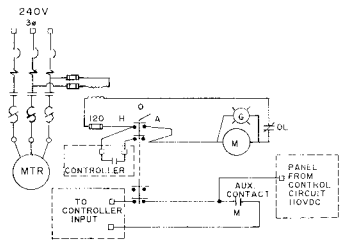
1) SUBSURFACE UTILITY LOCATIONS ARE BASED ON LIMITED INVESTIGATIONS OF EXISTING RECORDS AND ARE NOT WARRANTED TO BE CORRECT
2) THE CONTRACTOR SHALL VERIFY LOCATIONS OF UTILITIES AT THE TIME OF CONSTRUCTION WITH THE VARIOUS UTILITY COMPANIES INVOLVED OR PRESUMED TO BE INVOLVED, AND MAKE TEST PIT EXCAVATIONS AS REQUIRED OR DIRECTED
3) ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD & UNDERGROUND UTILITIES CROSSING OR NEAR TRENCH EXCAVATIONS OR RELATED WORK, SHALL BE PROTECTED & SUPPORTED BY THE CONTRACTOR THROUGH OUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH FACILITIES OR FEATURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.
4) ALL WORK TO BE IN CONFORMANCE WITH TOWN OF SEABROOK STANDARDS FOR WATER, SEWER AND DRAINAGE CONSTRUCTION (COPIES AVAILABLE AT THE TOWN OFFICES), WHERE THERE ARE CONFLICTS, STATE STANDARDS SHALL PREDOMINATE.
5) ALL WATER MAIN REPAIRS WILL BE PERFORMED BY THE TOWN OF SEABROOK AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
6) WHERE WORK REQUIRES RELOCATION, REPAIR OR CONNECTION TO EXISTING GAS LINES, THE WORK SHALL BE PERFORMED BY THE GAS COMPANY & SHALL BE PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
7) WHERE DAMAGE IS INCURRED ON TELEPHONE CABLES, EITHER BURIED OR OVERHEAD, REPAIRS SHALL BE MADE BY THE TELEPHONE COMPANY AND PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.
8) WHERE DAMAGE IS INCURRED ON BURIED OR OVERHEAD ELECTRIC WIRES, REPAIRS SHALL BE MADE BY THE ELECTRIC COMPANY & PAID FOR BY THE CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER.



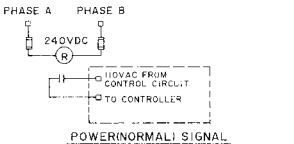
REMOTE TRANSMITTER/RECEIVER



CONTROL-POWER CIRCUIT

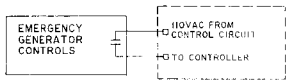


TYPICAL OF EACH PUMP



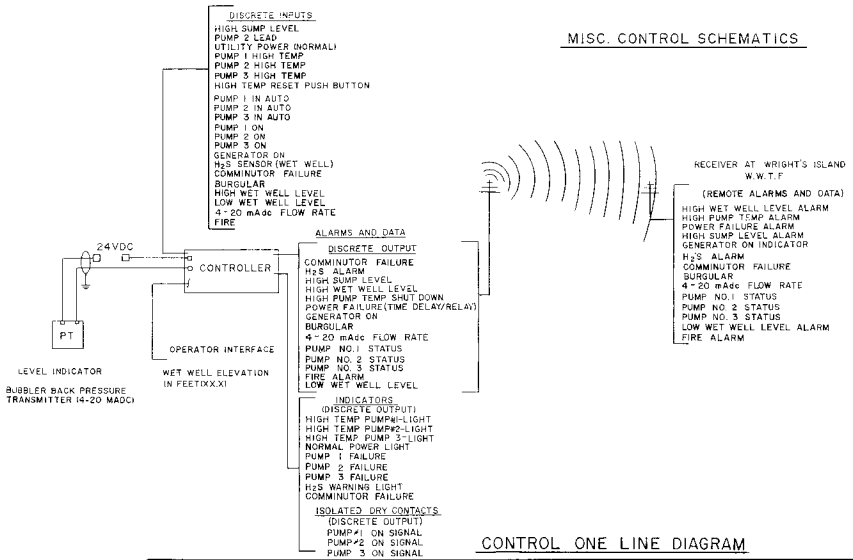
POWER(NORMAL) SIGNAL

SUMP LEVEL ALARM SWITCH

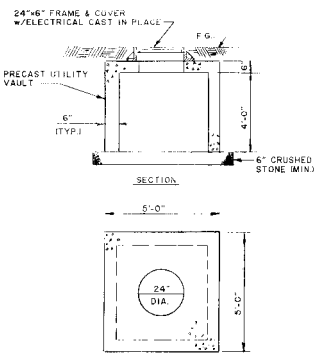


GENERATOR ON SIGNAL

MISC. CONTROL SCHEMATICS

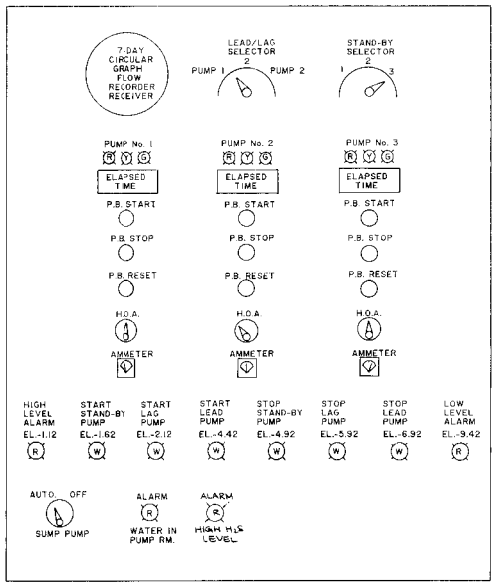


CONTROL ONE LINE DIAGRAM



TYPICAL ELECTRICAL MANHOLE

NO SCALE



CONTROL PANEL

NOT TO SCALE

NO.	REVISE CONTROL ONE LINE DIAGRAM				BHJ	3/94
	DRT	3/94	BHJ	BHJ		
P	ISSUED FOR APPROVAL				JAH	1/89
	RG	1/89	JOE	RG		
	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK / CENTENNIAL STREET PUMP STATION

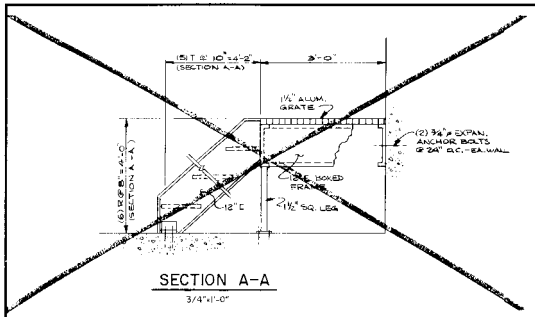
ELECTRICAL DETAILS & GENERAL NOTES

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

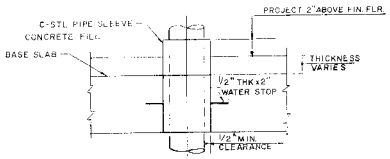
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 16 OF 28



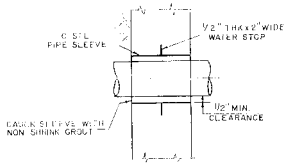
SECTION A-A

3/4"=1'-0"



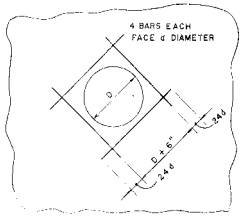
TYPICAL INTERIOR FLOOR PENETRATION

NO SCALE



TYPICAL WALL PENETRATION

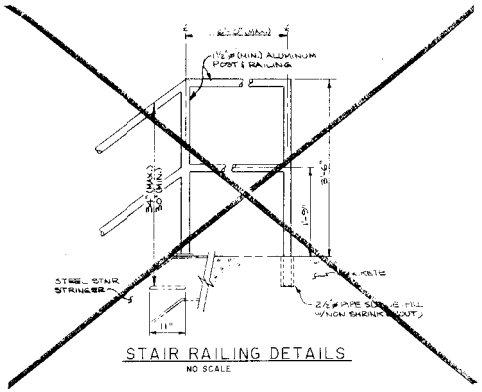
NO SCALE



NOTE: d = 1 SIZE LARGER THAN LARGEST BAR IN NORMAL SURROUNDING STEEL

ADDITIONAL REINFORCING AT WALL OPENINGS 8" DIA. AND LARGER

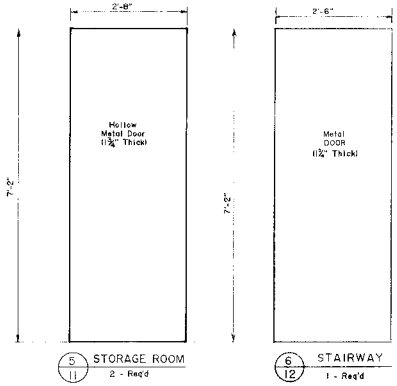
NO SCALE



STAIR RAILING DETAILS

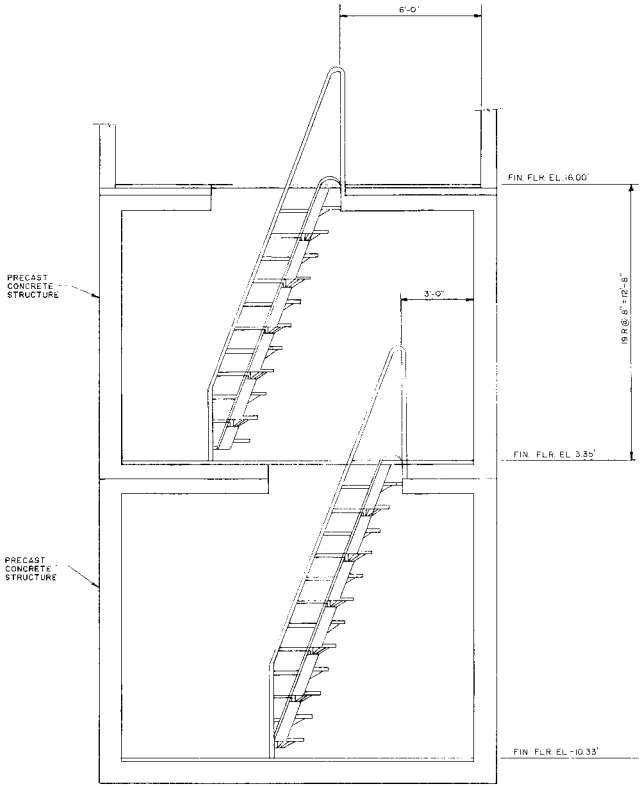
NO SCALE

NOTE:
1) ALL RAILINGS SHALL BE WELDED ALUMINUM, GROUND SMOOTH w/ 4 COATS METHACRYLIC LACQUER
2) RAILING AROUND OPENINGS SHALL BE 42" IN HEIGHT.



DOOR DETAILS

NO SCALE



SECTION THRU STAIRS

3/8"=1'-0"

RECORD DRAWING

5	RECORD DRAWING	KJL	03/96	BHJ		BHJ	03/96
4	REVISED DOOR DETAIL	DT	9/17	JEC	BHJ	BHJ	9/94
3	GEN. REVISIONS	SD	2/192	WM	BHJ	BHJ	2/92
2	GEN. REVISIONS	WM	7/92	RBJ	WM		
1	GEN. REVISIONS	WM	5/90	JGE		JAH	5/90
0	ISSUED FOR APPROVAL	RG	1/89	JGE	RG	JAH	1/89
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR: John A. Hayes — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CAINS BROOK/CENTENNIAL ST. PUMP STA.

MISC. DETAILS

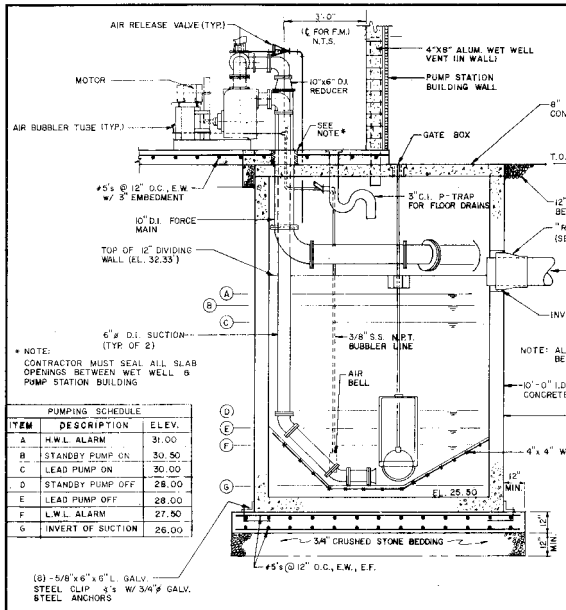
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 17 OF 28

H.H. SULLIVAN, INC. 506397


AIR RELEASE VALVE (TYP.)
3'-0" (℄ FOR F.M.) N.T.S.
4'X8' ALUM. WET WELL VENT (IN WALL)
MOTOR
10"x6" D.I. REDUCER
PUMP STATION BUILDING WALL
AIR BUBBLER TUBE (TYP.)
SEE NOTE*
8" THICK REINFORCED CONCRETE SLAB
GATE BOX
T.O.S. 38.50
#5's @ 12" O.C., E.W. w/ 3" EMBEDMENT
3" C.I. P-TRAP FOR FLOOR DRAINS
12" THICK CRUSHED STONE BEDDING UNDER SLAB
10" D.I. FORCE MAIN
"RUBBER LIKE" BOOT (SEE SHEET 23)
TOP OF 12" DIVIDING WALL (EL. 32.33)
18" P.V.C. SAN. SEWER INFLUENT (SDR 35)
INV. 31.49
6"ø D.I. SUCTION (TYP. OF 2)
3/8" S.S. N.P.T. BUBBLER LINE
NOTE: ALL 90° BENDS ARE TO BE LONG RADIUS ELBOWS
AIR BELL
10'-0" I.D. PRECAST CONCRETE WET WELL
COAT ALL WET WELL SURFACES: INTERIOR: PORTER INT. POLIBRID 670 + 705 POLYURETHANE EXTERIOR: PORTER INT. 7080 TARSET EPOXY; OR APPROVED EQUAL
4"x 4" W.W.M.
12" MIN.
EL. 25.50
12" MIN.
3/4" CRUSHED STONE BEDDING
#5's@12" O.C., E.W., E.F.
(8) - 5/8"x 6" x 6" L. GALV. STEEL CLIP ∠'s W/ 3/4"ø GALV. STEEL ANCHORS

* NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	31.00
B	STANDBY PUMP ON	30.50
C	LEAD PUMP ON	30.00
D	STANDBY PUMP OFF	28.00
E	LEAD PUMP OFF	28.00
F	L.W.L. ALARM	27.50
G	INVERT OF SUCTION	26.00

SECTION A-A
NO SCALE

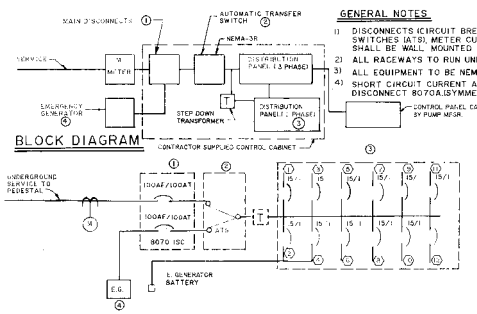
PUMP STATION DESIGN

CONDITIONS OF SERVICE:
800 G.P.M. @ 56.70 FT. TDH

PUMPING EQUIPMENT:
2-GORMAN RUPP 25 H.P. PUMPS, MODEL T6A-B
6" x 6" SELF-PRIMING SUCTION LIFT PUMPS
11-3/4" IMPELLER, 1350 R.P.M.
POWER: 480 VOLT/3 PHASE/60 Hz/4 WIRE

PUMP STATION CONTROL EQUIPMENT:

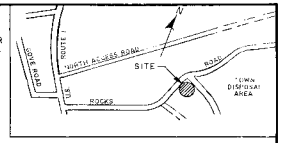
A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotometer
E) Alarm Light & Silencer
F) Reduced Voltage Starting For Motors
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) Automatic Transfer Switch For Switching Power Source From Power Company To Emergency Generator.
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 1Ø, 60Hz, Grounded Duplex Receptacle
O) 115V Alarm Light In Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply
Q) 3KVA Stepdown Transformer



BLOCK DIAGRAM

GENERAL NOTES

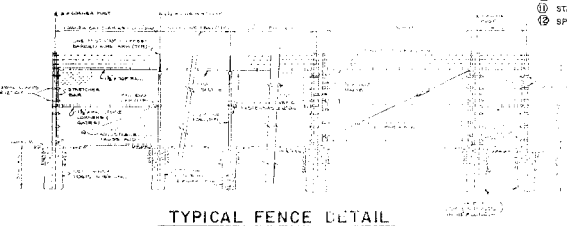
1) DISCONNECTS (CIRCUIT BREAKERS) AUTOMATIC TRANSFER SWITCHES (ATS), METER CUBICLE & DISTRIBUTION PANEL SHALL BE WALL MOUNTED TYPE OR APPROVED EQUAL.
2) ALL RACEWAYS TO RUN UNDERGROUND.
3) ALL EQUIPMENT TO BE NEMA-3R
4) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL)



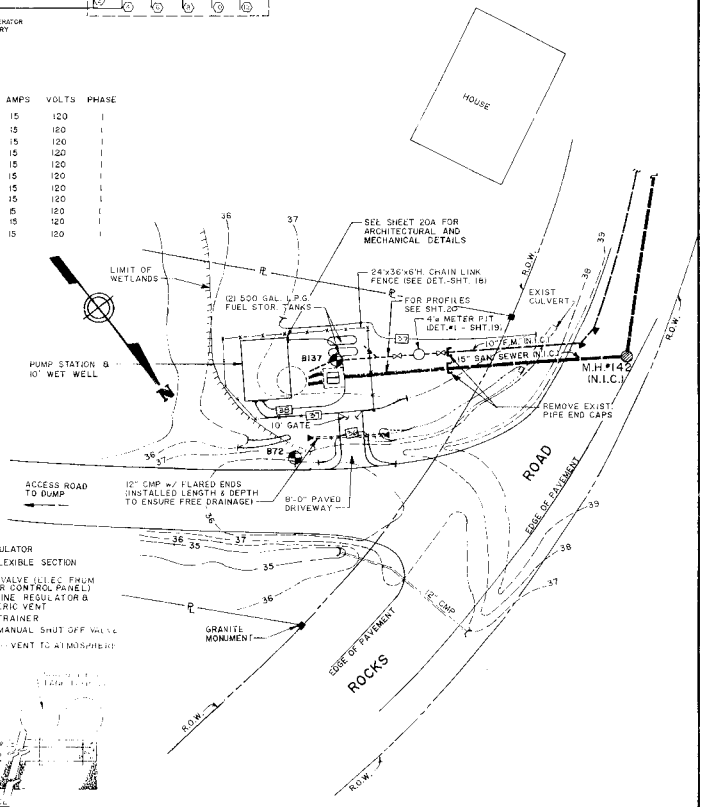
LOCUS PLAN
1" = 400'±

CIRCUITS

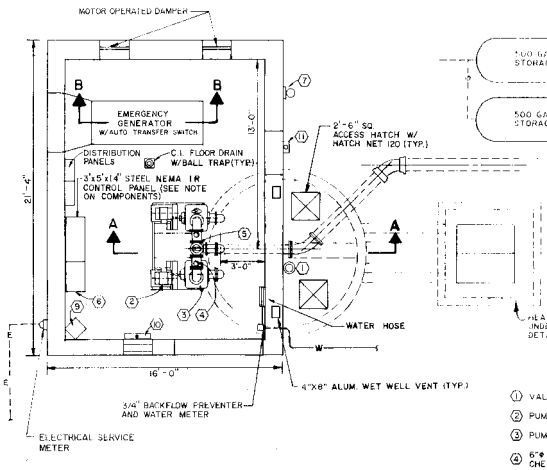
No.	DESCRIPTION	AMPS	VOLTS	PHASE
1	STATION HEATER	15	120	1
2	H_2S MONITOR	15	120	1
3	RECEPTACLE W/ GROUND FAULT	15	120	1
4	GEN. SET BATTERY CHARGER	15	120	1
5	ALARM LIGHTS	15	120	1
6	RADIO TELEMETRY	15	120	1
7	FLOW METER & LAPSE TIME METER	15	120	1
8	STATION VENTILATOR BLOWER	15	120	1
9	HAND HELD LIGHT	15	120	1
10	STATION LIGHTS	15	120	1
11	STATION LIGHTS	15	120	1
12	SPARE			



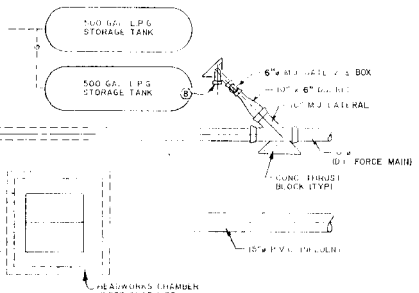
TYPICAL FENCE DETAIL
1/2" SCALE

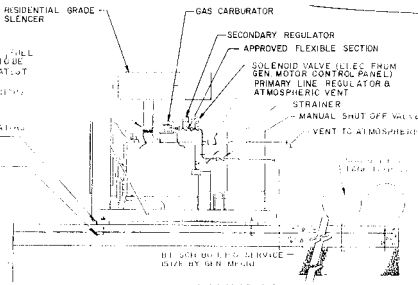


SITE PLAN
1"=20'-0"


MOTOR OPERATED DAMPER
EMERGENCY GENERATOR W/AUTO TRANSFER SWITCH
DISTRIBUTION PANELS
C.I. FLOOR DRAIN W/BALL TRAP(TYP.)
3'x5'x14" STEEL NEMA 1R CONTROL PANEL (SEE NOTE ON COMPONENTS)
2'-6" SQ. ACCESS HATCH W/ HATCH NET 120 (TYP.)
WATER HOSE
4"X8" ALUM. WET WELL VENT (TYP.)
3/4" BACKFLOW PREVENTER AND WATER METER
ELECTRICAL SERVICE METER
16'-0"
21'-4"
12'-0"

PLAN - PUMPING STATION & STANDBY GENERATOR
SCALE: 1/4" = 1'-0"


500 GAL. L.P.G. STORAGE TANK
500 GAL. L.P.G. STORAGE TANK
6"ø MJ GATE V. & BOX
10" x 6" D.I. TEE
6" MJ LATERAL
10" D.I. FORCE MAIN
CONC. THRUST BLOCK (TYP.)
18"ø P.V.C. SAN. SEWER
HEADWORKS (REMOVED UNDER SLAB) SEE DETAIL - SHT. 20


RESIDENTIAL GRADE SILENCER
GAS CARBURATOR
SECONDARY REGULATOR
APPROVED FLEXIBLE SECTION
SOLENOID VALVE (TYP.) (ELEC. FROM GEN. MOTOR CONTROL PANEL)
PRIMARY LINE REGULATOR & ATMOSPHERIC VENT
STRAINER
MANUAL SHUT OFF VALVE
VENT TO ATMOSPHERE
FLEXIBLE COUPLING (TYP.)
PAD TYPE VIBRATION ISOLATORS (QTY. AS REQ'D BY MFGR.)
3/4"ø ANCHOR BOLTS (QTY. AS REQ'D BY MFGR.)
DETAILS OF SERVICE SIZE BY GEN. MFGR.
CONDITIONS OF SERVICE
GENERATOR

SECTION B-B
NO SCALE

65 KW AT 277/480 VOLTS, 3Ø-60 Hz, 105 AMPS.
126 MAX. H.P. AT 1800 R.P.M. 4 CYCLE, 8 CYLINDER, L.P.G. FUELED LIQUID COOLED, EQUIPPED W/ RESIDENTIAL SILENCER, 12V ELECTRIC START W/ BATTERY CHARGER & BLOCK HEATER

PLAN VIEW LEGEND

1. VALVE BOX (CANAL GATE)
2. PUMP MOTOR (TYP. 2)
3. PUMP (TYP. 2)
4. 6"ø FULL FLOW SWING CHECK VALVE (TYP. 2)
5. 6"ø, 3-WAY PLUG VALVE
6. CONTROL PANEL CABINET BY PUMP MFGR.
7. 150 WHPS LIGHT, AUTO ELEC. SWITCH
8. 5 3/4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
9. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
10. FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER

CONTRACTOR SUPPLIED CONTROL PANEL COMPONENTS

1. MAIN DISCONNECT
2. COMMINUTOR PANEL
3. FLOW METER PANEL
4. RADIO ALARM SYSTEM (RTU)
5. 50' WATERPROOF TROUBLE LIGHT
6. 110V ELECTRICAL DUPLEX OUTLET
7. H_2S GAS MONITOR UNIT

NO.	DESCRIPTION	BY	DATE
5	GENERAL REVISIONS WK 4/95 JEC	BHJ	BHJ 4/95
4	PUMP STATION REVISIONS DT 8/94 BHJ	BHJ	BHJ 8/94
3	GENERAL REVISIONS DRT 3/94 BHJ	BHJ	BHJ 3/94
2	GEN. REVISIONS WHA 11/90 JOE		JAH 7/90
1	GEN. REVISIONS WK 8/90 JOE		JAH 9/90
0	ISSUED FOR APPROVAL RG 10/88 JOE	RG	JAH 1/89
	DRAWN DATE CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

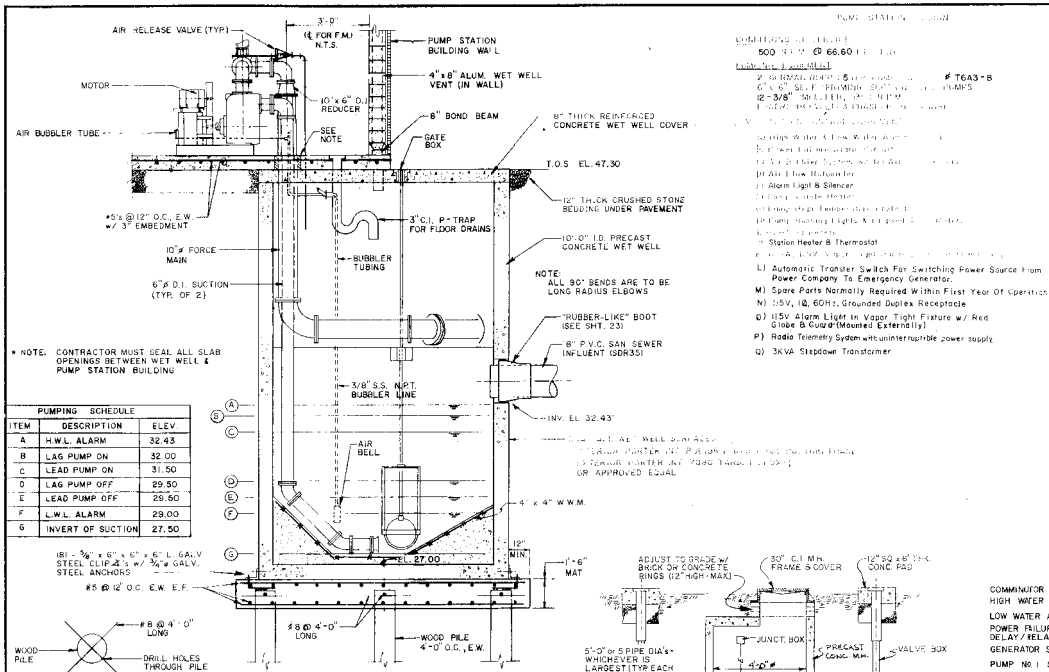
ROCKS ROAD PUMPING STATION

SITE PLAN & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 CONTRACT NO. V SHEET 18 OF 28

N.H. SULLIVAN INC. 886387

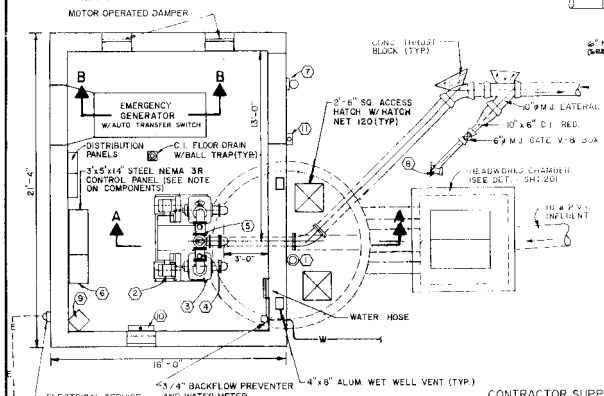

AIR RELEASE VALVE (TYP)
PUMP STATION BUILDING WALL
4"x8" ALUM. WET WELL VENT (IN WALL)
MOTOR
10"x6" D.I. REDUCER
8" BOND BEAM
8" THICK REINFORCED CONCRETE WET WELL COVER
AIR BUBBLER TUBE
SEE NOTE
GATE BOX
T.O.S EL. 47.30
12" THICK CRUSHED STONE BEDDING UNDER PAVEMENT
3"C.I. P-TRAP FOR FLOOR DRAINS
10"ø FORCE MAIN
BUBBLER TUBING
10'-0" I.D. PRECAST CONCRETE WET WELL
NOTE: ALL 90° BENDS ARE TO BE LONG RADIUS ELBOWS
6"ø D.I. SUCTION (TYP. OF 2)
"RUBBER-LIKE" BOOT (SEE SHT. 23)
8" P.V.C. SAN. SEWER INFLUENT (SDR35)
3/8" S.S. NPT. BUBBLER LINE
INV. EL. 32.43'
AIR BELL
4"x4" W.W.M.
12" MIN.
1'-6" MAT
EL. 27.00
WOOD PILE 4'-0" O.C., E.W.
#8 @ 4'-0" LONG
#5 @ 12" O.C. E.W. E.F.
#8 @ 4'-0" LONG
WOOD PILE
DRILL HOLES THROUGH PILE

* NOTE: CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	32.43
B	LAG PUMP ON	32.00
C	LEAD PUMP ON	31.50
D	LAG PUMP OFF	29.50
E	LEAD PUMP OFF	29.50
F	L.W.L. ALARM	29.00
G	INVERT OF SUCTION	27.50

SECTION A-A
NO SCALE

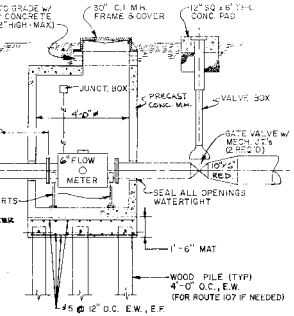
PILE CAP DETAIL
N.T.S.


MOTOR OPERATED DAMPER
EMERGENCY GENERATOR W/ AUTO TRANSFER SWITCH
DISTRIBUTION PANELS
C.I. FLOOR DRAIN W/BALL TRAP(TYP.)
3'x5'x14" STEEL NEMA 3R CONTROL PANEL (SEE NOTE ON COMPONENTS)
CONC. THRUST BLOCK (TYP.)
2'-6" SQ. ACCESS HATCH W/HATCH NET 120(TYP.)
10"ø M.J. LATERAL
10"x6" D.I. RED.
6"ø M.J. GATE V'LV. & BOX
HEADWORKS CHAMBER (SEE DET. SHT. 20)
10"ø P.V.C. EFFLUENT
WATER HOSE
16'-0"
3/4" BACKFLOW PREVENTER AND WATER METER
4"x8" ALUM. WET WELL VENT (TYP.)
ELECTRICAL SERVICE METER

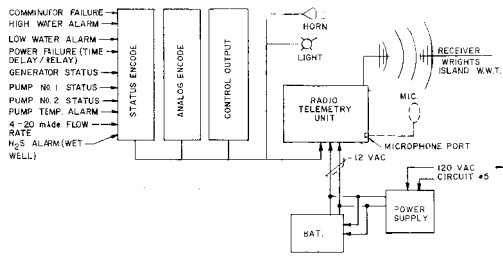
PLAN VIEW LEGEND

1. VALVE BOX (CANAL GATE)
2. PUMP MOTOR (TYP. 2)
3. PUMP (TYP. 2)
4. 6"ø FULL FLOW SWING CHECK VALVE (TYP. 2)
5. 6"ø, 3-WAY PLUG VALVE
6. CONTROL PANEL CABINET BY PUMP MFGR.
7. 150 WHPS LIGHT, AUTO ELEC. SWITCH
8. 5/8" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
9. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
10. FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER ON OPPOSITE SIDE OF ROOM
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER

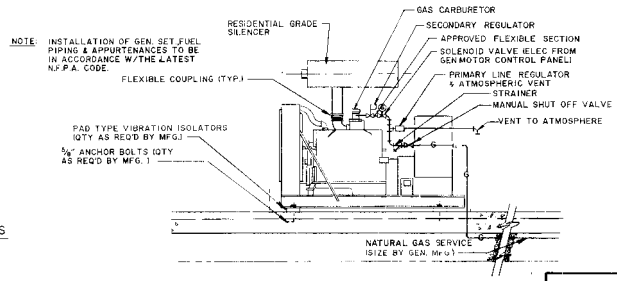
PLAN - PUMPING STATION & STANDBY GENERATOR
SCALE: 1/4" = 1'-0"


ADJUST TO GRADE W/ BRICK ON CONCRETE RINGS (12" HIGH MAX.)
30" C.I. M.H. FRAME & COVER
12" SQ x 8" THK. CONC. PAD
JUNCT. BOX
PRECAST CONC. M.H.
VALVE BOX
5'-0" or 5 PIPE DIA's - WHICHEVER IS LARGEST (TYP. EACH END OF METER)
4'-0"
FLOW METER
GATE VALVE w/ MECH. JT'S (2 REQ'D)
10"ø RED.
PIPE SUPPORTS
SEAL ALL OPENINGS WATERTIGHT
6" MAG. FLOW METER (SEE SPEC. 15176)
1'-6" MAT
WOOD PILE (TYP) 4'-0" O.C., E.W. (FOR ROUTE 107 IF NEEDED)
#5 @ 12" O.C. E.W., E.F.

DETAIL - 1
TYPICAL METER PIT



REMOTE TRANSMITTER RECEIVER
(TYPICAL - ROCKS ROAD & ROUTE 107 PUMP STATIONS)


NOTE: INSTALLATION OF GEN. SET FUEL PIPING & APPURTENANCES TO BE IN ACCORDANCE W/THE LATEST N.F.P.A. CODE.
RESIDENTIAL GRADE SILENCER
GAS CARBURETOR
SECONDARY REGULATOR
APPROVED FLEXIBLE SECTION
SOLENOID VALVE (ELEC FROM GEN. MOTOR CONTROL PANEL)
PRIMARY LINE REGULATOR & ATMOSPHERIC VENT
STRAINER
MANUAL SHUT OFF VALVE
VENT TO ATMOSPHERE
FLEXIBLE COUPLING (TYP.)
PAD TYPE VIBRATION ISOLATORS (QTY AS REQ'D BY MFG.)
⅝" ANCHOR BOLTS (QTY AS REQ'D BY MFG.)
NATURAL GAS SERVICE (SIZE BY GEN. MFG.)

SECTION B-B
NO SCALE

CONDITIONS OF SERVICE

GENERATOR :

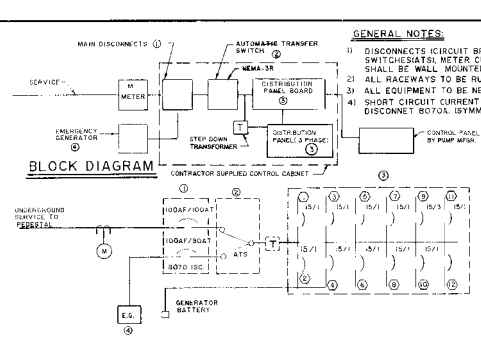
65 KILOWATTS AT 277/480 VOLTS, 3Ø-60 Hz, 105 AMPS

ENGINE :

126 MAX. H.P. AT 1800 R.P.M., 4 CYCLE, 8 CYLINDER, N.G. FUELED, LIQUID COOLED, EQUIPPED W/ RESIDENTIAL SERVICE SILENCER, 12V ELECTRIC START W/BATTERY CHARGER + BLOCK HEATER

CONTRACTOR SUPPLIED CONTROL PANEL COMPONENTS

1. MAIN DISCONNECT
2. COMMINUTOR PANEL
3. FLOW METER PANEL
4. RADIO ALARM SYSTEM (RTU)
5. 50' WATERPROOF TROUBLE LIGHT
6. 110V ELECTRICAL DUPLEX OUTLET



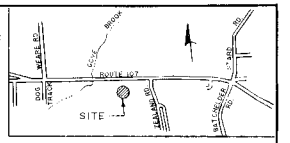
BLOCK DIAGRAM

CIRCUITS

No.	DESCRIPTION	AMPS	VOLTS	PHASE
(1)	STATION HEATER & LIGHT	15	120	1
(2)	H_2S MONITOR	15	120	1
(3)	RECEPTACLE w/GROUND FAULT	15	120	1
(4)	GEN. SET BATTERY CHARGER	15	120	1
(5)	ALARM LIGHTS & RADIO TELEMETRY	15	120	1
(6)	BUBBLER LEVEL CONTROL	15	120	1
(7)	FLOW METER & LAPSE TIME METER	15	120	1
(8)	STATION VENTILATOR BLOWER	15	120	1
(9)	HAND HELD LIGHT	15	120	1
(10)	STATION LIGHTS	15	120	1
(11)	STATION LIGHTS	15	120	1
(12)	SPARE			

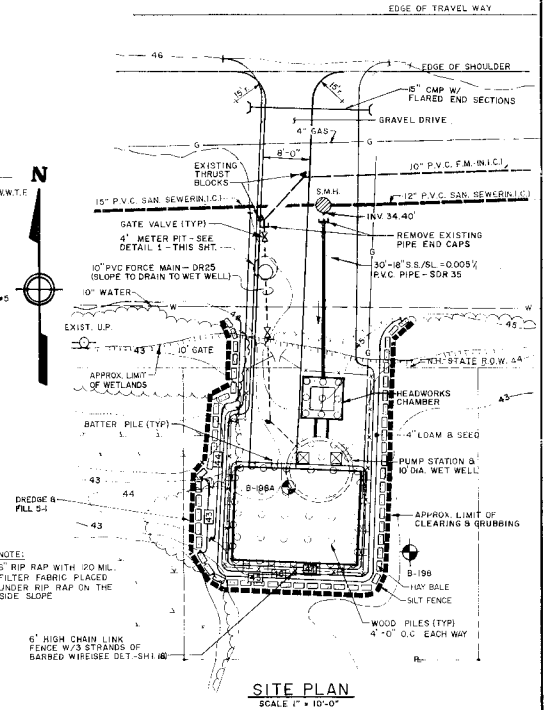
GENERAL NOTES:

1) DISCONNECTS (CIRCUIT BREAKER), AUTOMATIC TRANSFER SWITCHES(ATS), METER CUBICLE & DISTRIBUTION PANEL SHALL BE WALL MOUNTED TYPE.
2) ALL RACEWAYS TO BE RUN UNDERGROUND.
3) ALL EQUIPMENT TO BE NEMA-3R.
4) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNET 8070A. (SYMMETRICAL)



LOCUS PLAN
1" = 1250'±

N. H. ROUTE 107


EDGE OF TRAVEL WAY
EDGE OF SHOULDER
15" CMP W/ FLARED END SECTIONS
GRAVEL DRIVE
4" GAS
8"-0"
10" P.V.C. F.M. (IN I.C.)
EXISTING THRUST BLOCKS
S.M.H.
12" P.V.C. SAN. SEWER (IN I.C.)
15" P.V.C. SAN. SEWER (IN I.C.)
INV. 34.40'
GATE VALVE (TYP.)
4" METER PIT - SEE DETAIL 1 - THIS SHT.
REMOVE EXISTING PIPE END CAPS
10" PVC FORCE MAIN - DR25 (SLOPE TO DRAIN TO WET WELL)
30'-18" S.S./SL = 0.005% P.V.C. PIPE - SDR 35
10" WATER
EXIST. U.P.
10' GATE
APPROX. LIMIT OF WETLANDS
N.H. STATE R.O.W.
HEADWORKS CHAMBER
BATTER PILE (TYP.)
4" LOAM & SEED
PUMP STATION & 10' DIA. WET WELL
DREDGE & FILL
APPROX. LIMIT OF CLEARING & GRUBBING
B-198
HAY BALE
SILT FENCE
WOOD PILES (TYP.) 4'-0" O.C. EACH WAY
6' HIGH CHAIN LINK FENCE W/ 3 STRANDS OF BARBED WIRE SEE DET.-SH 1 (6)

NOTE:
6" RIP RAP WITH 120 MIL. FILTER FABRIC PLACED UNDER RIP RAP ON THE SIDE SLOPE

SITE PLAN
SCALE 1" = 10'-0"

5	GENERAL REVISIONS	WK	4/95	BHJ	BHJ	BHJ 4/95
4	PUMP STATION REVISIONS	DT	8/94	BHJ	BHJ	BHJ 8/94
3	GENERAL REVISIONS	DRT	3/94	BHJ	BHJ	BHJ 3/94
2	REVISED PLAN, SITE PLAN (SECT. A-A	KJM	7/90	JOE		JAH 7/90
1	REVISED SITE PLAN & GEN. REMISIONS.	KJM	5/90	JOE		JAH 5/90
0	ISSUED FOR APPROVAL	RG	10/88	JOE	RG	JAH 1/89
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR: APPROVED

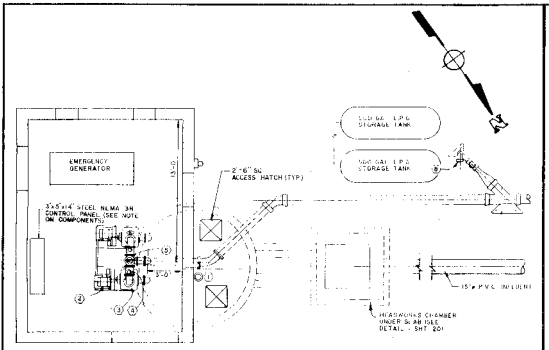
TOWN OF SEABROOK, NEW HAMPSHIRE

ROUTE 107 (GOVE BROOK) PUMP STATION

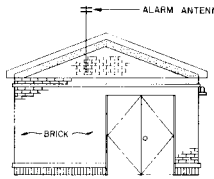
SITE PLAN & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

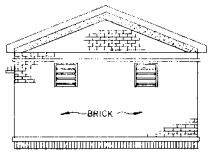
JOB NO. 8704/1444 CONTRACT NO. V SHEET 19 OF 28


EMERGENCY GENERATOR
500 GAL. L.P.G. STORAGE TANK
500 GAL. L.P.G. STORAGE TANK
2'-6" SQ. ACCESS HATCH (TYP.)
3'-0"
15" P.V.C. INFLUENT
HEADWORKS CHAMBER UNDER SLAB (SEE DETAIL - SHT. 20)

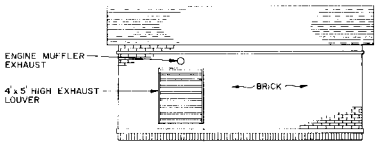
PLAN VIEW



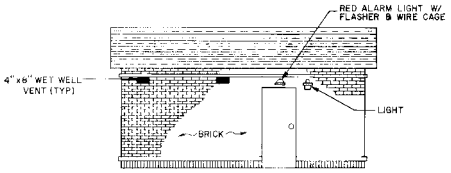
NORTH ELEVATION



SOUTH ELEVATION



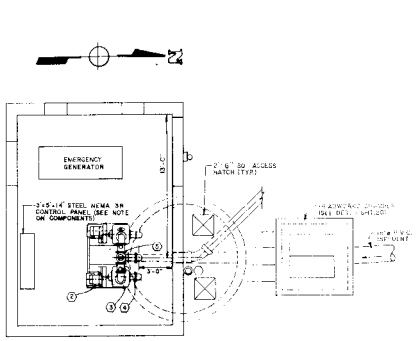
EAST ELEVATION



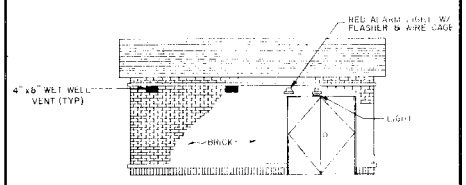
WEST ELEVATION

ROCKS ROAD PUMPING STATION

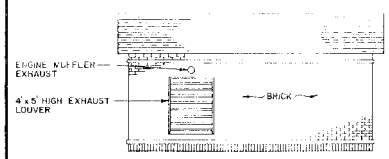
SCALE: 3/16"= 1'-0"



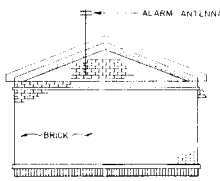
PLAN VIEW



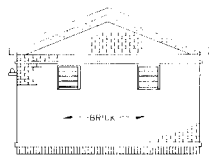
NORTH ELEVATION



SOUTH ELEVATION



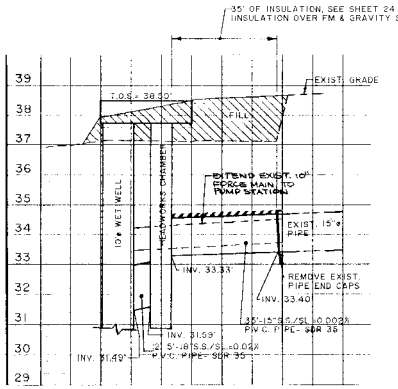
EAST ELEVATION



WEST ELEVATION

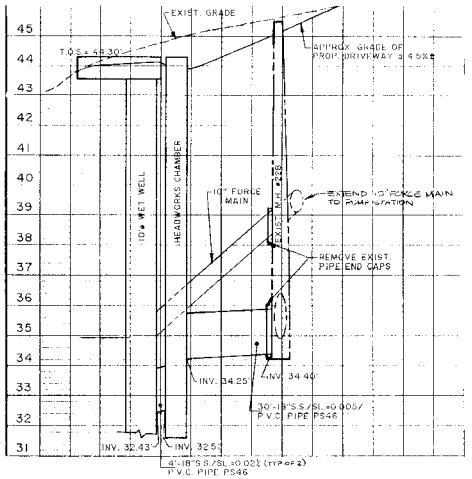
ROUTE 107 PUMPING STATION

SCALE: 3/16"= 1'-0"



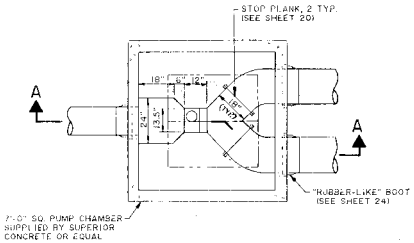
ROCKS ROAD PUMPING STATION PROFILE

SCALE: 1"= 20' (H)
1"= 2' (V)



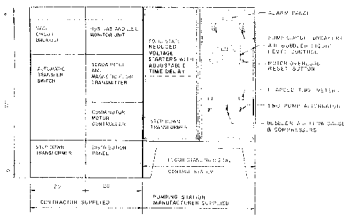
ROUTE 107 PUMPING STATION PROFILE

SCALE: 1"= 20' (H)
1"= 2' (V)

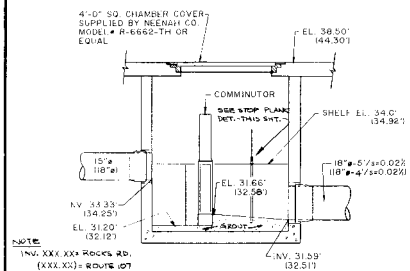


HEADWORKS CHAMBER

SCALE: 3/8"= 1'-0"

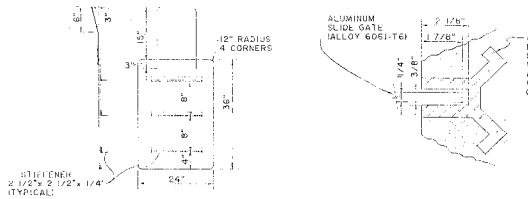


LAYOUT OF MOTOR CONTROL CABINETS - SEWAGE PUMPING STATION WITH EMERGENCY GENERATOR SET (ROUTE 107 AND ROCKS ROAD)
NO SCALE



SECTION A-A

SCALE: 3/8"= 1'-0"


12" RADIUS 4 CORNERS
STIFFENER 2 1/2"x 2 1/2"x 1/4" (TYPICAL)
STOP PLANK
ALUMINUM SLIDE GATE (ALLOY 6061-T6)
ALUM. GUIDE EXTRUSION SUPPLIED BY WASHINGTON ALUM. CO.# A-3240 OR EQUAL (ALLOY 6061-T6)
FRAME

STOP PLANK & FRAME DETAILS

NO SCALE

2	GENERAL REVISIONS	DRT	3/94	BHJ	BHJ	3/94
1	GENERAL REVISIONS	DRT	3/94	BHJ	BHJ	3/94
0	ISSUED FOR APPROVAL	WMA	7/90	JOE	JAH	7/90
NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

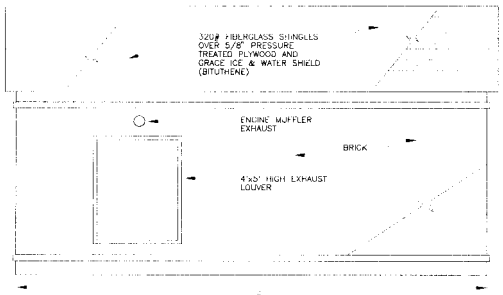
ROCKS ROAD/ ROUTE 107 PUMP STATIONS

MISC. DETAILS

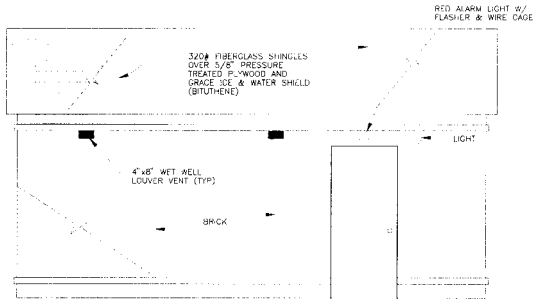
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 20 OF 28

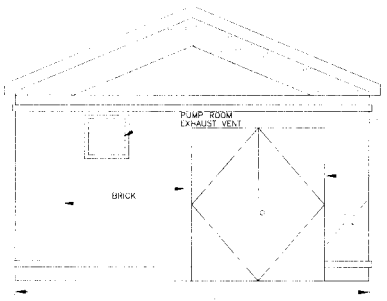
MARKFORCE P-5328


320# FIBERGLASS SHINGLES OVER 5/8" PRESSURE TREATED PLYWOOD AND GRACE ICE & WATER SHIELD (BITUTHENE)
ENGINE MUFFLER EXHAUST
BRICK
4'x5' HIGH EXHAUST LOUVER

REAR
3/8" = 1'-0"

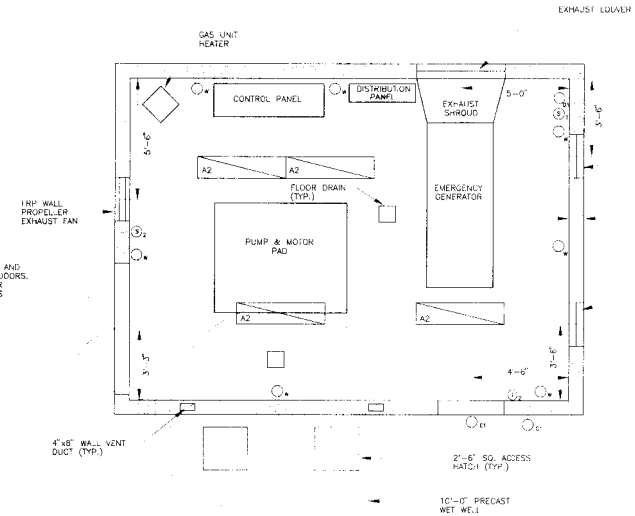

RED ALARM LIGHT W/ FLASHER & WIRE CAGE
320# FIBERGLASS SHINGLES OVER 5/8" PRESSURE TREATED PLYWOOD AND GRACE ICE & WATER SHIELD (BITUTHENE)
LIGHT
4"x8" WET WELL LOUVER VENT (TYP.)
BRICK

FRONT
3/8" = 1'-0"

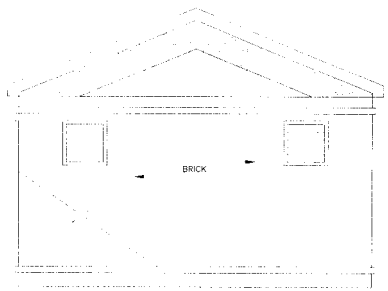


LT. SIDE
3/8" = 1'-0"

METAL STEEL FRAME AND SOLID CORE STEEL DOORS. CONTACT THE OWNER WHEN KEYING DOORS



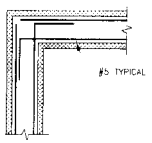
FLOOR PLAN
3/8" = 1'-0"



RT. SIDE
3/8" = 1'-0"

ELECTRICAL LEGEND

A2	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
C1	35 WATT H.P.S., BRACKET MOUNTED WEATHER PROOF, VANDAL & CORROSION RESISTANT, PHOTOELEC ACTUATED
D1	75 WATT H.P.S. WALL MTD., MOISTURE & CORROSION RESISTANT
E1	100 WATT REG LAMP, WALL MOUNTED, WEATHER PROOF, VANDAL & CORROSION RESISTANT
S1	SWITCH FOR D1 LIGHT
S2	3-WAY SWITCH FOR ALL A2 LIGHTS
W	DUPLEX RECEPTACLE, WEATHER PROOF

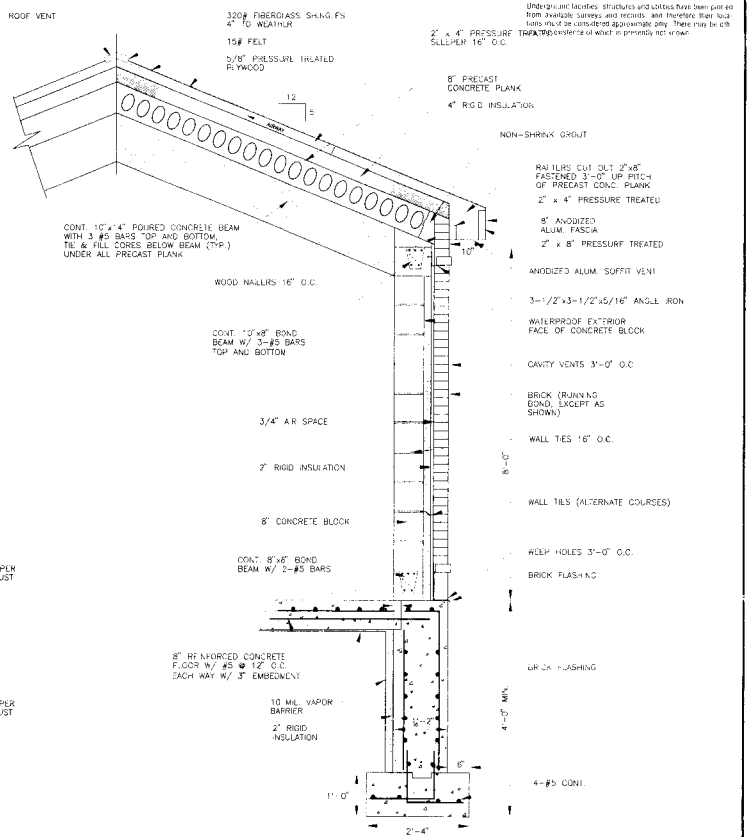


BOND BEAM CORNER REINFORCEMENT DETAIL
NOT TO SCALE

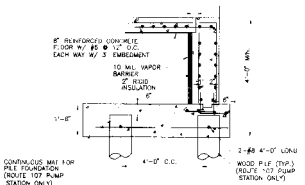
MOTOR OPERATED DAMPER FOR GENERATOR EXHAUST

8" (TYP)

MOTOR OPERATED DAMPER FOR GENERATOR EXHAUST


ROOF VENT
320# FIBERGLASS SHINGLES 4" TO WEATHR
15# FELT
5/8" PRESSURE TREATED PLYWOOD
12
5
2" x 4" PRESSURE TREATED SLEEPER 16" O.C.
8" PRECAST CONCRETE PLANK
4" RIGID INSULATION
NON-SHRINK GROUT
CONT. 10"x14" POURED CONCRETE BEAM WITH 3 #5 BARS TOP AND BOTTOM, TIE & FILL CORES BELOW BEAM (TYP.) UNDER ALL PRECAST PLANK
WOOD NAILERS 16" O.C.
RAFTERS CUT OUT 2"x8" FASTENED 3'-0" UP PITCH OF PRECAST CONC. PLANK
2" x 4" PRESSURE TREATED
8" ANODIZED ALUM. FASCIA
2" x 8" PRESSURE TREATED
ANODIZED ALUM. SOFFIT VENT
3-1/2"x3-1/2"x5/16" ANGLE IRON
WATERPROOF EXTERIOR FACE OF CONCRETE BLOCK
CAVITY VENTS 3'-0" O.C.
BRICK (RUNNING BOND, EXCEPT AS SHOWN)
3/4" AIR SPACE
WALL TIES 16" O.C.
2" RIGID INSULATION
8" CONCRETE BLOCK
WALL TILES (ALTERNATE COURSES)
CONT. 8"x8" BOND BEAM W/ 2-#5 BARS
WEEP HOLES 3'-0" O.C.
BRICK FLASHING
8" REINFORCED CONCRETE FLOOR W/ #5 @ 12" O.C. EACH WAY W/ 3" EMBEDMENT
10 MIL. VAPOR BARRIER
2" RIGID INSULATION
8'-0"
4'-0" MIN.
1'-0"
2'-4"
4-#5 CONT.

TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"


8" REINFORCED CONCRETE FLOOR W/ #5 @ 12" O.C. EACH WAY W/ 3" EMBEDMENT
10 MIL. VAPOR BARRIER
2" RIGID INSULATION
4'-0" MIN.
1'-8"
4'-0" O.C.
2-#8 4'-0" LONG
CONTINUOUS MAT FOR PILE FOUNDATION (ROUTE 107 PUMP STATION ONLY)
WOOD PILE (TYP.) (ROUTE 107 PUMP STATION ONLY)

PILE FOUNDATION FOR ROUTE 107 PUMP STATION
SCALE: 3/8" = 1'-0"

NOTES:

1. ROOF SHALL BE DESIGNED TO SUPPORT 100 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
2. FLOOR SHALL BE DESIGNED TO SUPPORT 300 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
3. THE CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE

NOTES.
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be oth

NO.	ISSUED FOR APPROVAL					
	DRT	9/94	JEC	BHJ	BHJ	9/94
	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

PUMPING STATION BUILDING

ARCHITECTURAL - MECHANICAL / ELECTRICAL DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. V | SHEET 20A OF 28

SANITARY SEWER CONSTRUCTION

SEABROOK, NEW HAMPSHIRE

CONTRACT NO. 7

1993

JONES & BEACH/STEARNS & WHEELER

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

RECORD DRAWING

ABBREVIATIONS

BENCHMARK	BM
BITUMINOUS	BIT
CAST IRON PIPE	CIP
CATCH BASIN	CB
CONCRETE	CONC
CORR. METAL PIPE	CMP
DRAIN	D
ELEVATION	EL
FENCE	FC
FIRST FLOOR	FF
FORCE MAIN	FM
GAS MAIN	G
GUIDE POST	GP
HYDRANT	HYD
INVERT	INV
IRON PIN	IP
LAMP POLE	LP
MANHOLE	MH
MONUMENT	MON
PERCENT GRADE	%
PERM. EASEMENT	PE
RIGHT OF WAY	ROW
SEWER	S
STONE	ST
SEWER MANHOLE	SMH
TEMP. EASEMENT	TE
WATER	W
WOOD	WD
WOVEN WIRE	WW
PROPERTY LINE	P
GRAVEL	GRAV
WITH WATERTIGHT FRAME & COVER	w/W.F.&C.

SELECTMEN

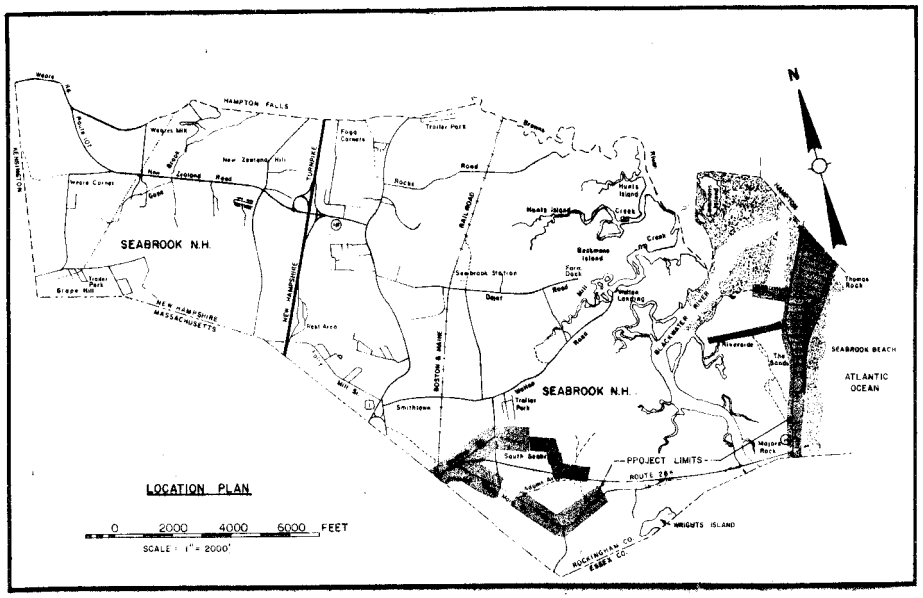
ASA H. KNOWLES JR., CHAIRMAN

ELIZABETH A. THIBODEAU

BURWELL PIKE

TOWN MANAGER

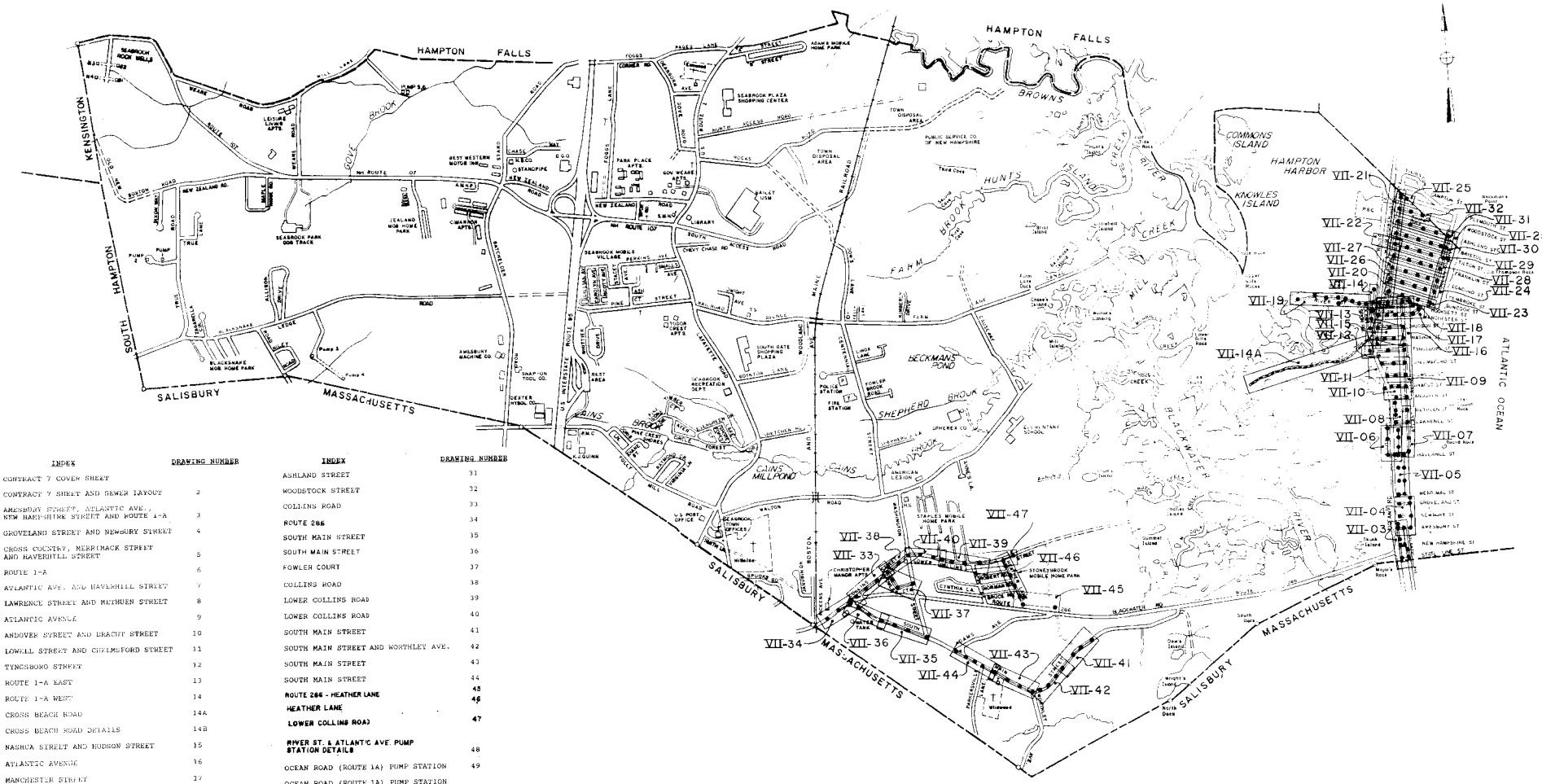
E. RUSSELL BAILEY



LOCATION PLAN

LEGEND

- PROPOSED SANITARY SEWER WITH LATERAL
- EXISTING SANITARY SEWER WITH LATERAL
- SANITARY SEWER WITH PROFILE ON ANOTHER SHEET
- FORCE MAIN
- PUMP STATION (PROPOSED/EXISTING) ● P.S. ○ P.S.
- OCEAN OUTFALL WITH STATIONING
- MANHOLE (PROPOSED/EXISTING) ● M.H. ○ M.H.
- CATCH BASIN (PROPOSED/EXISTING) ■ C.B. □ C.B.
- CULVERT
- HYDRANT
- WATER MAIN
- WATER VALVE/WATER SERVICE ⊗ W.V. ⊗ W.S.
- GAS MAIN
- GAS VALVE/GAS SERVICE ⊗ G.V. ⊗ G.S.
- UNDERGROUND TELEPHONE/ELECTRICAL
- STREAM/BROOK
- POND/WET AREA
- RIVER
- WOODS AND/OR BRUSH LINE
- APPROXIMATE TOWN/STATE LINE
- APPROXIMATE RIGHT-OF-WAY LINE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- LEDGE OUTCROP
- RETAINING WALL
- GUARD RAIL
- STONE WALL
- FENCE
- CONIFEROUS/DECIDUOUS TREES
- SHRUBS OR BUSH
- HOUSE OR BUILDING
- HOUSE NUMBER
- HOUSE WITH SEWER SERVICE
- UTILITY POLE
- LAMP POLE
- MAILBOX
- SIGN
- BASELINE CONTROL POINT
- PIPE INSULATION
- BASEMENT FACILITIES
- FABRIC FENCE (SILTATION CONTROL)



INDEX	DRAWING NUMBER
CONTRACT 7 COVER SHEET	
CONTRACT 7 SHEET AND SEWER LAYOUT	2
AMESBURY STREET, ATLANTIC AVE., NEW HAMPSHIRE STREET AND ROUTE 1-A	3
GROVELAND STREET AND NEWBURY STREET	4
CROSS COUNTRY, MERRIMACK STREET AND HAVERHILL STREET	5
ROUTE 1-A	6
ATLANTIC AVE. AND HAVERHILL STREET	7
LAWRENCE STREET AND METHUEN STREET	8
ATLANTIC AVENUE	9
ANDOVER STREET AND BRADLEY STREET	10
LOWELL STREET AND CHELMSFORD STREET	11
TYNGSBORO STREET	12
ROUTE 1-A EAST	13
ROUTE 1-A WEST	14
CROSS BEACH ROAD	14A
CROSS BEACH ROAD DETAILS	14B
NASHUA STREET AND HUDSON STREET	15
ATLANTIC AVENUE	16
MANCHESTER STREET	17
HOOKSETT STREET	18
RIVER STREET	19
PORTSMOUTH AVENUE	20
PORTSMOUTH AVENUE	21
STORMWATER OUTFALL	22
SUNCOOK STREET	23
OCEAN DRIVE	24
OCEAN DRIVE AND PLYMOUTH STREET	25
PEMBROKE STREET	26
CONCORD STREET	27
FRANKLIN STREET	28
TILTON STREET	29
BRISTOL STREET	30

INDEX	DRAWING NUMBER
ASHLAND STREET	31
WOODSTOCK STREET	32
COLLINS ROAD	33
ROUTE 286	34
SOUTH MAIN STREET	35
SOUTH MAIN STREET	36
FOWLER COURT	37
COLLINS ROAD	38
LOWER COLLINS ROAD	39
LOWER COLLINS ROAD	40
SOUTH MAIN STREET	41
SOUTH MAIN STREET AND WORTHLEY AVE.	42
SOUTH MAIN STREET	43
SOUTH MAIN STREET	44
ROUTE 286 - HEATHER LANE	45
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LOWER COLLINS ROAD	47
RIVER ST. & ATLANTIC AVE. PUMP STATION DETAILS	48
OCEAN ROAD (ROUTE 1A) PUMP STATION	49
OCEAN ROAD (ROUTE 1A) PUMP STATION DETAILS	50
EROSION CONTROL DETAILS	51
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STANDARD TRENCH SECTIONS	54
MISCELLANEOUS DETAILS	55
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HOUSE SEWER DETAILS	57

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DES. ENGR.	APPROVED	DATE
C	ISSUED FOR APPROVAL			JAM		8/91
	WM	8/91	JBE	WM		

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

CONTRACT # 7

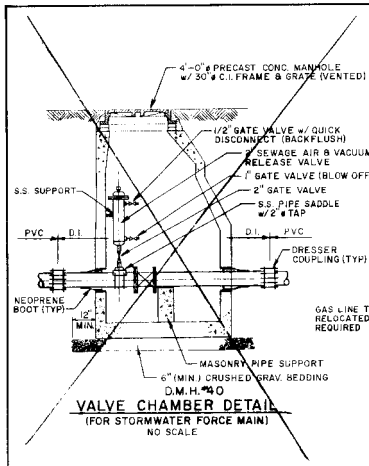
SHEET AND SEWER LAYOUT

Jones & Beach / Stearns & Wheler

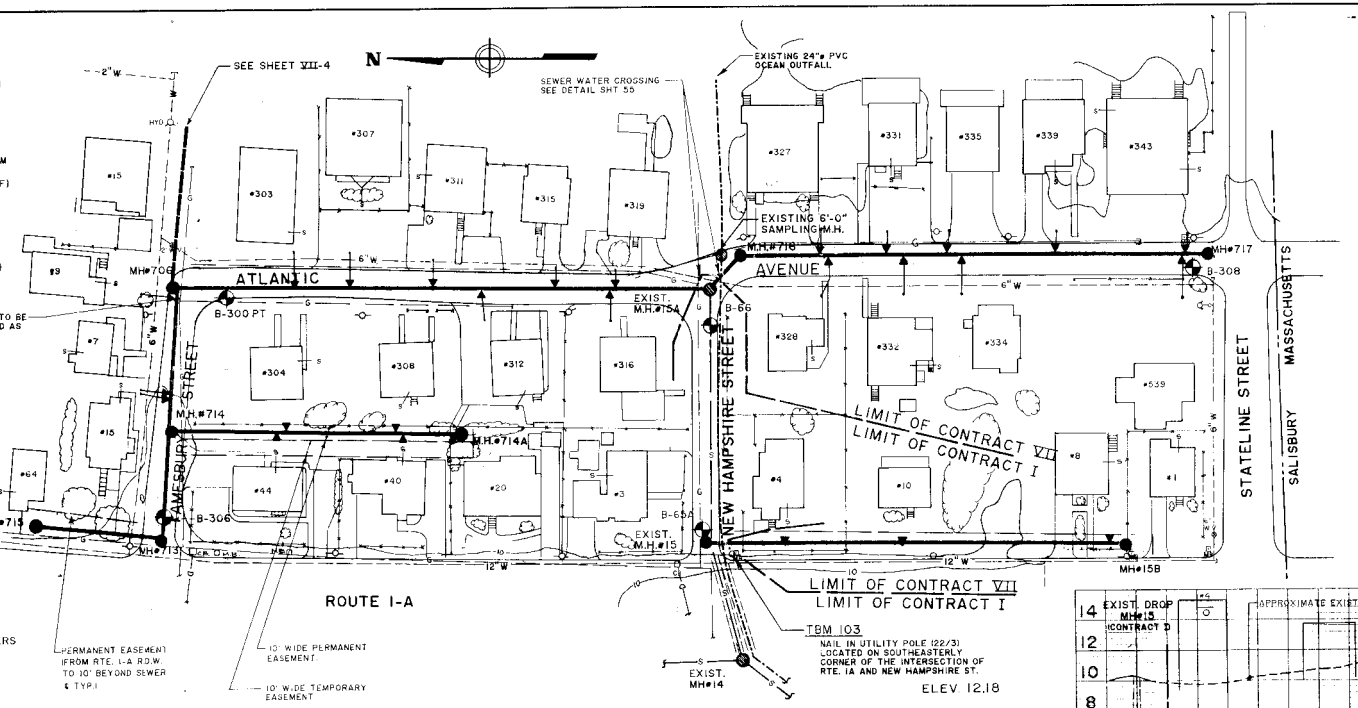
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 2 OF 57



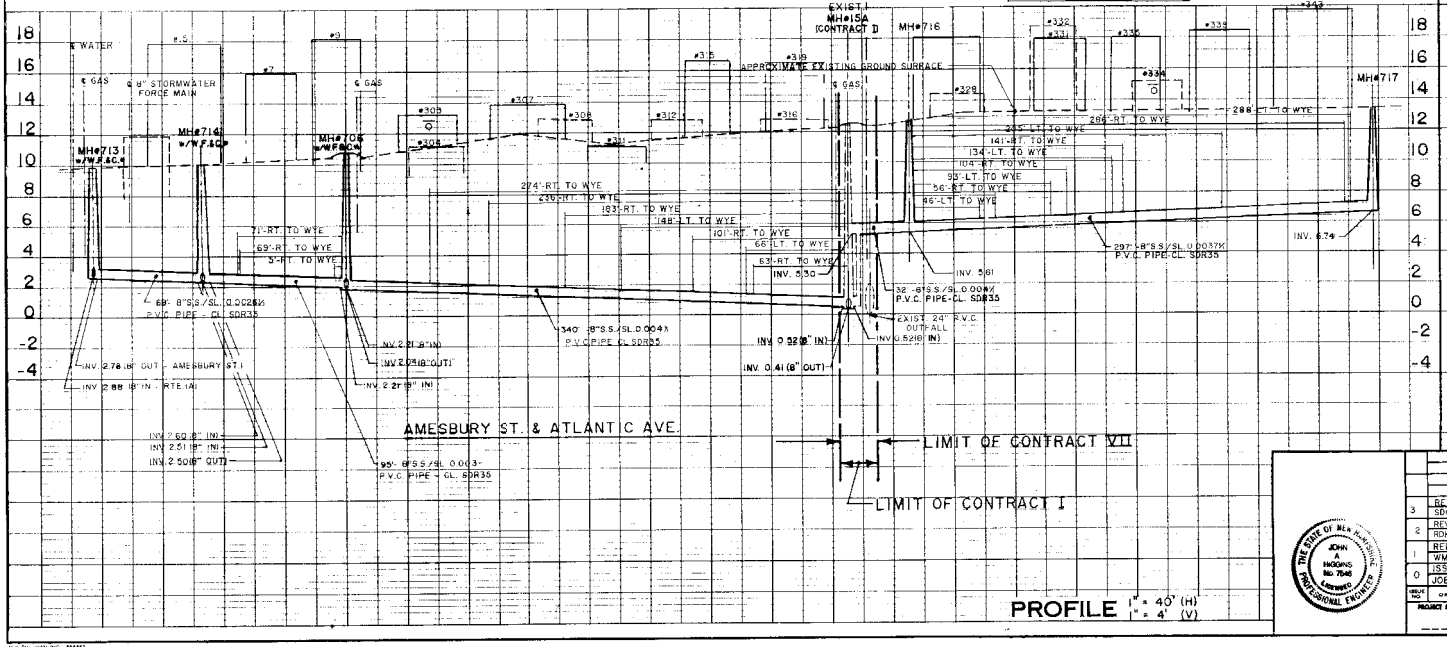
VALVE CHAMBER DETAIL
(FOR STORMWATER FORCE MAIN)
NO SCALE



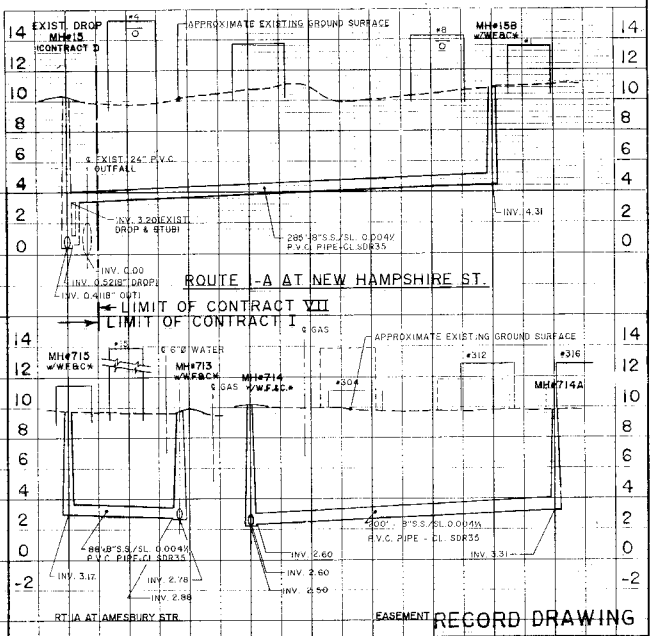
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)



RECORD DRAWING

3	RECORD DRAWING SDC 9/93 WM			BHJ	9/93	
2	REVISED DRAINAGE RDK 9/93	RBJ	RBJ	RBJ	9/93	
1	RELOCATED BORINGS & F.M. WM 7/92 RAJ			BAJ	7/92	
0	ISSUED FOR APPROVAL JOE/BAJ 12/90	JAH	SB	JAH	12/90	
NO.	DRAWN DATE	CHECKED	DESIGNER	APPROVED	DATE	

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
AMESBURY STREET&ATLANTIC AVENUE
NEW HAMPSHIRE STREET&ROUTE 1-A
(MANHOLE NO.713-717)-(MANHOLE NO.715-714)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 3 OF 57

TBM 102

NAIL IN UTILITY POLE #51 LOCATED ON THE WESTERLY SIDE OF N.H. RTE. 1A OPPOSITE THE ENTRANCE TO AMESBURY ST.

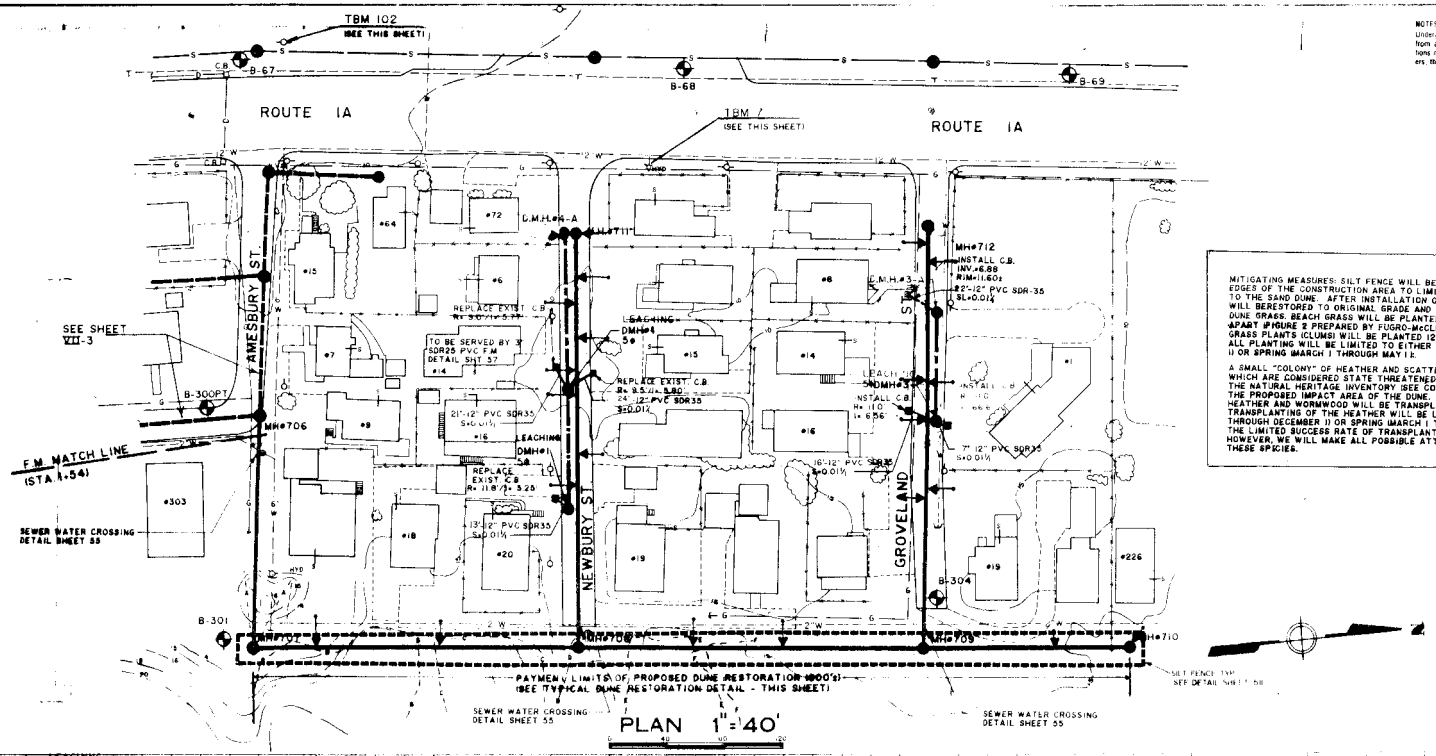
ELEV. 10.95

TBM 7

"X" CUT IN SOUTH BOLT OF HYDRANT LOCATED ON EAST SIDE OF RTE. 1A 66.5' NORTH FROM INTERSECTION OF NEWBURY ST & ROUTE 1A

ELEV. 12.99

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

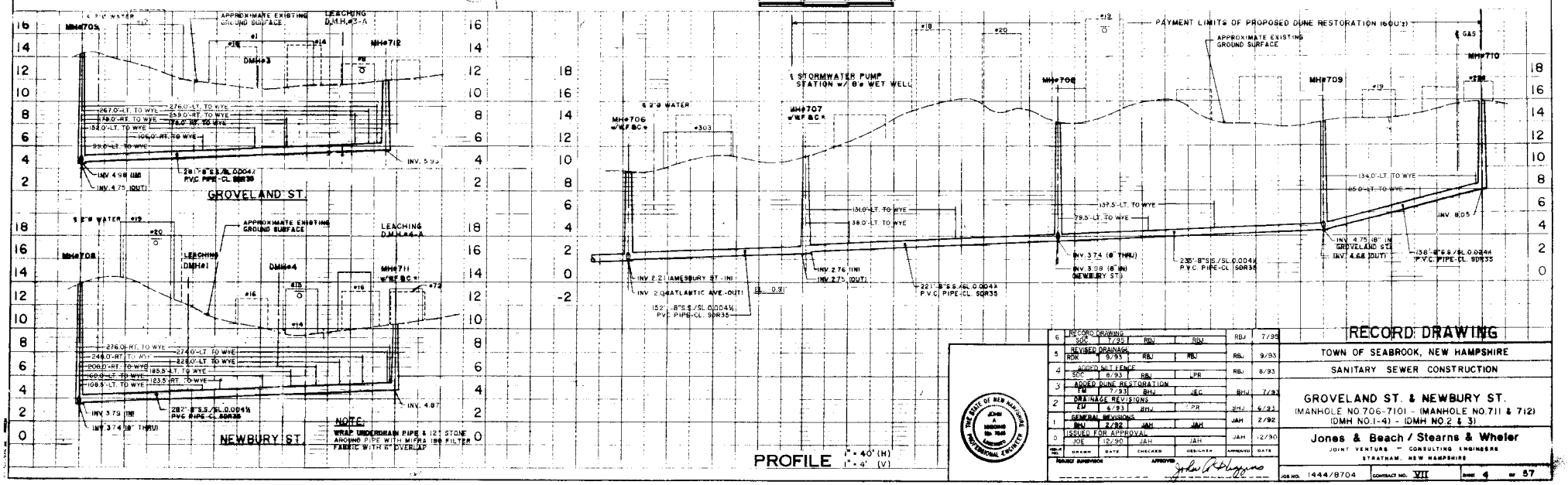


NOTES

Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.

MITIGATING MEASURES: SILT FENCE WILL BE INSTALLED ALONG THE OUTSIDE EDGES OF THE CONSTRUCTION AREA TO LIMIT THE EXTENT OF DISTURBANCE TO THE SAND DUNE. AFTER INSTALLATION OF THE PIPE, THE SAND DUNE AREA WILL BE RESTORED TO ORIGINAL GRADE AND ELEVATION AND REPLANTED WITH DUNE GRASS. BEACH GRASS WILL BE PLANTED IN STAGGERED ROWS PLACED 12" APART (FIGURE 2 PREPARED BY FUGRO-MCCLELLAND). TWO (2) INDIVIDUAL BEACH GRASS PLANTS (CLUMPS) WILL BE PLANTED 12" APART AT A DEPTH OF 4" TO 6". ALL PLANTING WILL BE LIMITED TO EITHER FALL (OCTOBER 1 THROUGH DECEMBER 1) OR SPRING (MARCH 1 THROUGH MAY 1).

A SMALL "COLONY" OF HEATHER AND SCATTERED SPECIMENS OF WORMWOOD, WHICH ARE CONSIDERED STATE THREATENED SPECIES IN NEW HAMPSHIRE BY THE NATURAL HERITAGE INVENTORY (SEE CORRESPONDENCE), ARE LOCATED IN THE PROPOSED IMPACT AREA OF THE DUNE. PRIOR TO CONSTRUCTION, THE HEATHER AND WORMWOOD WILL BE TRANSPLANTED FURTHER UP INTO THE DUNE. TRANSPLANTING OF THE HEATHER WILL BE LIMITED TO EITHER FALL (OCTOBER 1 THROUGH DECEMBER 1) OR SPRING (MARCH 1 THROUGH MAY 1). WE UNDERSTAND THE LIMITED SUCCESS RATE OF TRANSPLANTING, PARTICULARLY THE HEATHER. HOWEVER, WE WILL MAKE ALL POSSIBLE ATTEMPTS TO SUCCESSFULLY TRANSPLANT THESE SPECIES.



NOTE: WRAP UNDERDRAIN PIPE & 12" STONE AROUND PIPE WITH MIRAFI 160 FILTER FABRIC WITH 6" OVERLAP

PROFILE 1"=40'(H) 1"=4'(V)

6	RECORD DRAWING SOC 7/95	RDV	RBJ	RBJ	7/95
5	REVISED DRAINAGE ROK 9/93	RBJ	RBJ	RBJ	9/93
4	ADDED SILT FENCE SOC 8/93	RBJ	JPR	RBJ	8/93
3	ADDED DUNE RESTORATION FM 7/93	BHJ	JEC	BHJ	7/93
2	DRAINAGE REVISIONS EJV 6/93	BHJ	JPR	BHJ	6/93
1	GENERAL REVISIONS BHJ 2/92	JAH	JAH	JAH	2/92
0	ISSUED FOR APPROVAL JOC 12/90	JAH	JAH	JAH	12/90
ISSUE NO.	DRAWN DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

GROVELAND ST. & NEWBURY ST.

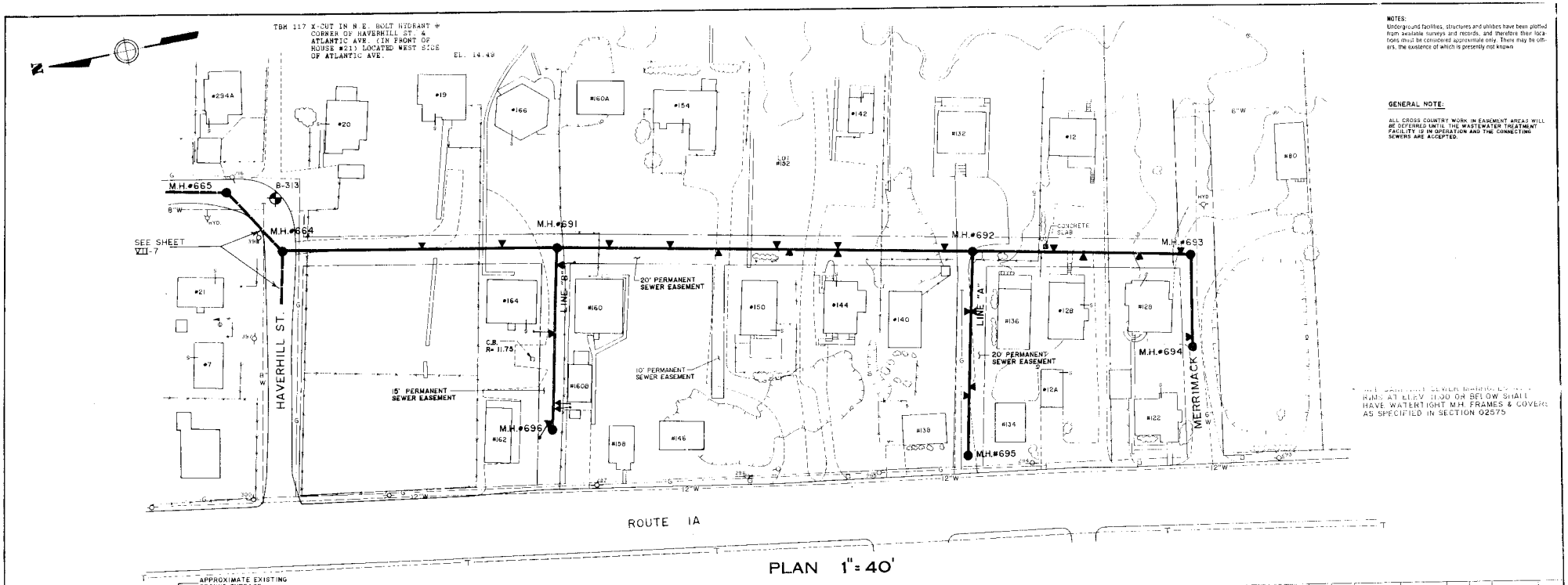
(MANHOLE NO.706-7101 - (MANHOLE NO.711 & 712) (DMH NO.1-4) - (DMH NO.2 & 3)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 4 OF 57



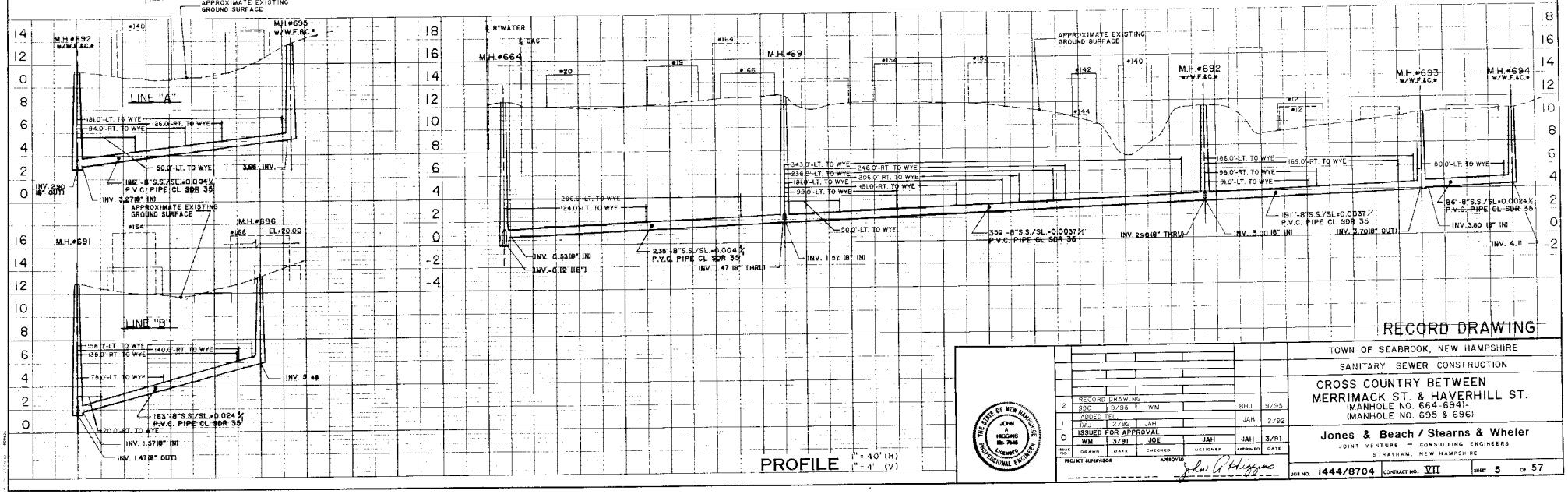
PLAN 1"= 40'

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.

GENERAL NOTE:

ALL CROSS COUNTRY WORK IN EASEMENT AREAS WILL BE DEFERRED UNTIL THE WASTEWATER TREATMENT FACILITY IS IN OPERATION AND THE CONNECTING SEWERS ARE ACCEPTED.

ALL MANHOLES LOCATED IN PAVED AREAS SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CROSS COUNTRY BETWEEN MERRIMACK ST. & HAVERHILL ST.

(MANHOLE NO. 664-6941-
(MANHOLE NO. 695 & 696)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	SDC	9/95	WM		BHJ	9/95
1	RAJ	2/92	JAH		JAH	2/92
0	WM	3/91	JOE	JAH	JAH	3/91

RECORD DRAWING
ADDED TEL.
ISSUED FOR APPROVAL

PROJECT SURVEY/BOB APPROVED John A Higgins

THE STATE OF NEW HAMPSHIRE JOHN A HIGGINS NO. 7548 LICENSED PROFESSIONAL ENGINEER

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 5 OF 57

TBM 6
NAIL IN UTILITY POLE(NET&T 300)
LOCATED ON N.E. CORNER OF INTERSECTION
OF HAVERHILL ST. & RTE. 1A.
ELEV. 16.74

LIMIT OF CONTRACT I
LIMIT OF CONTRACT VII

CONSTRUCTION FENCE (SET 20' FROM EDGE OF PAVED SHOULDER)

TYPE "D" EROSION PROTECTION

M.H. 689B

M.H. 689C

MH#689

ROUTE 1-A

EXIST. DROP M.H. #21

B-4

ROUTE 1-A

TBM 6
(SEE THIS SHEET)

12"W

EXIST M.H. #21A

HAVERHILL STREET

#196

#200

#204

#212

#216

#220

PORCH

MH#686

DROP MH#663

B-311

#7

MH#686

MH#687

SHED TO BE MOVED DURING CONSTRUCTION AND REPLACED WHEN COMPLETE.

RELOCATE TEL POLE AS NECESSARY

SEWER WATER CROSSING DETAIL SHEET 55

PROPOSED 20' PERMANENT EASEMENT

SEE SHEET VII- 7

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN

GENERAL NOTE:

ALL CROSS COUNTRY WORK IN EASEMENT AREAS WILL BE DEFERRED UNTIL THE WASTEWATER TREATMENT FACILITY IS IN OPERATION AND THE CONNECTING SEWERS ARE ACCEPTED.

PLAN 1" = 40'

0 40 80 120 FT

EXIST DROP MH#21

8" WATER

APPROXIMATE EXISTING GROUND SURFACE

MH#689

15" CMP DRAIN

INV. 7.90

200'-8" S.S/SL=0.004± PVC PIPE SDR35

INV. 8.70

M.H. 689B

330'-8"S.S. / SL=0.01± P.V.C. PIPE CL. SDR35

INV. 4.40(8"IN)

INV. 0.33 (8"DROP IN)
INV. -0.50(8"IN)
INV. -0.60(8"OUT)

M.H. 689C

M.H. 689B

N.T.S.

INV. 8.70

210'-8" S.S/SL=0.004± PVC PIPE SDR 35

INV. 9.54

LIMIT OF CONTRACT VII

LIMIT OF CONTRACT I

(WEST SIDE - ROUTE 1A)

6" GAS

DROP MH#663

8" WATER

#5

APPROXIMATE EXISTING GROUND SURFACE

MH#686

#196

#200

195'-8"S.S / SL=0.005½ P.V.C. PIPE CL. SDR35

INV. 7.50(8"IN)

INV. 6.48

INV. 0.55(8"DROP)

INV. -0.28(8"THRU)

M.H.#687

MH#688

#204

#212

#216

#220

235'-8"S.S / SL=0.005½ P.V.C. PIPE CL. SDR35

INV. 9.65

110'-8" S.S/SL= 0.005/ PVC PIPE SDR-35

INV. 10.20

ROUTE 1-A (EAST SIDE)

PROFILE 1" = 40' (H) 1" = 4' (V)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	ADDED M.H. 689B AND 689C	DRT	4/94	WM	RBJ	RBJ	4/94
2	RELOCATE M.H.#687	EM	10/93	JEC	RBJ	RBJ	10/93
1	ADDED TEL	RBJ	2/92	JAH		JAH	2/92
0	ISSUED FOR APPROVAL	JOE/BAJ	12/90	JAH	SB	JAH	12/90

PROJECT SUPERVISOR: APPROVED

THE STATE OF NEW HAMPSHIRE — JOHN A. HIGGINS No. 7940 — PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 1-A

(MANHOLE NO.21-689)-(MANHOLE NO.663-688)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 6 OF 57

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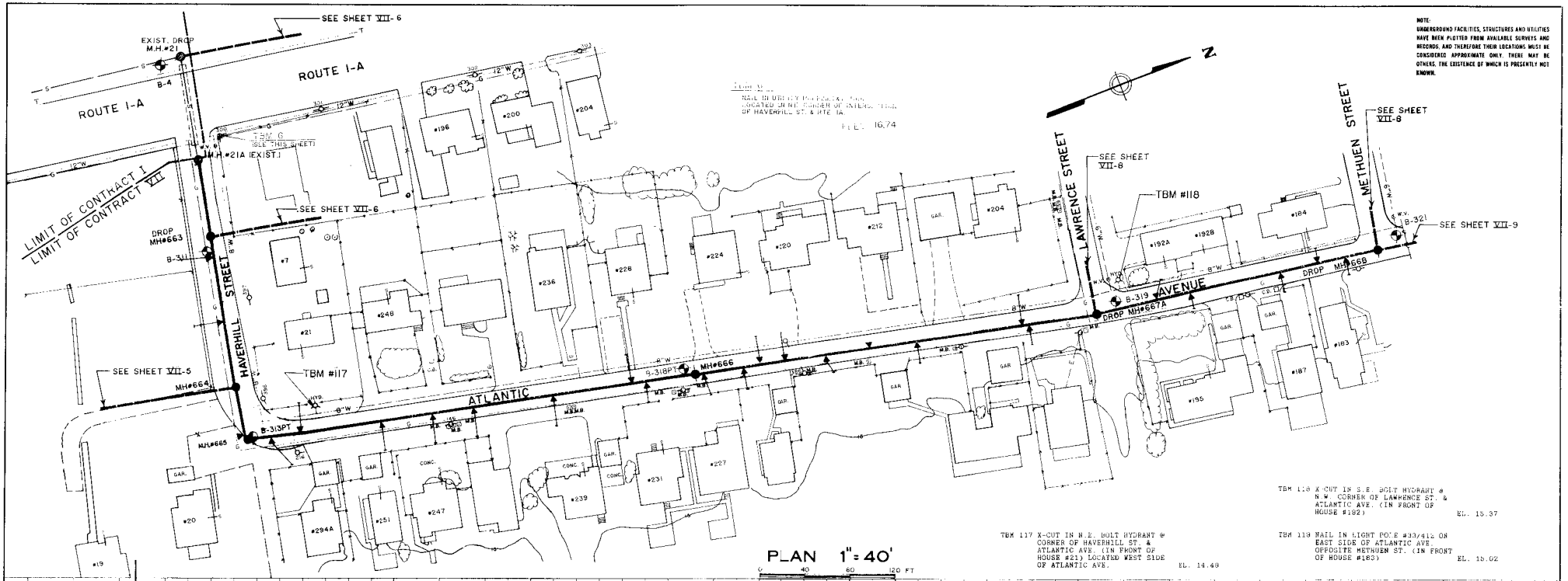
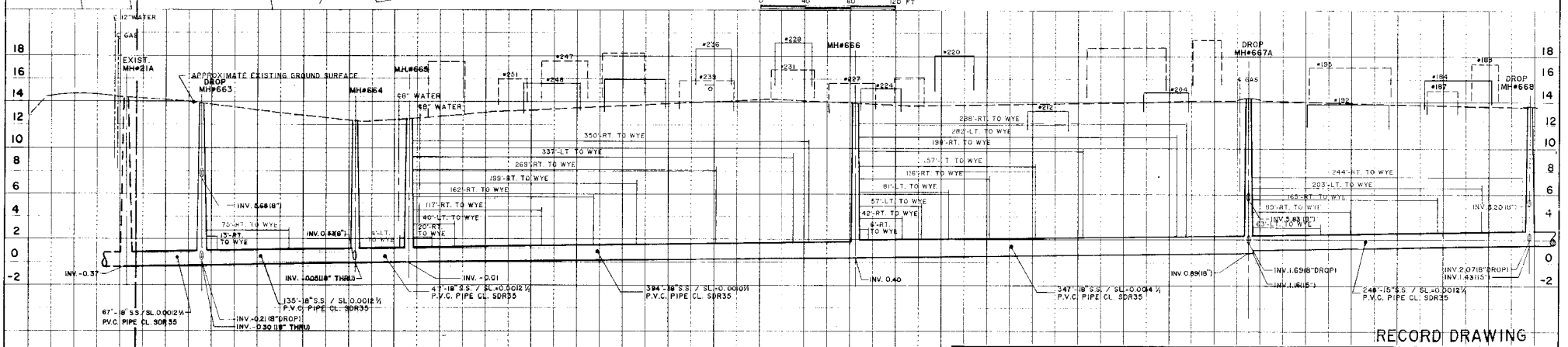


PLAN 1"= 40'



PROFILE 1"= 40' (H) 1"= 4' (V)

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE JOHN HIGGINS No. 7546 REGISTERED PROFESSIONAL ENGINEER

2	RECORD DRAWING			BHJ	9/95
	SDC	9/95	WM		
1	ADDED TEL.			JAH	2/92
	RAJ	2/92	JAH		
0	ISSUED FOR APPROVAL			JAH	1/91
	SR/JDE	12/90	JAH	SB	
MARK NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR APPROVED John R. Higgins

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ATLANTIC AVENUE & HAVERHILL STREET

(MANHOLE NO.21A)-(MANHOLE NO.668)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 7 OF 57

NOTES:
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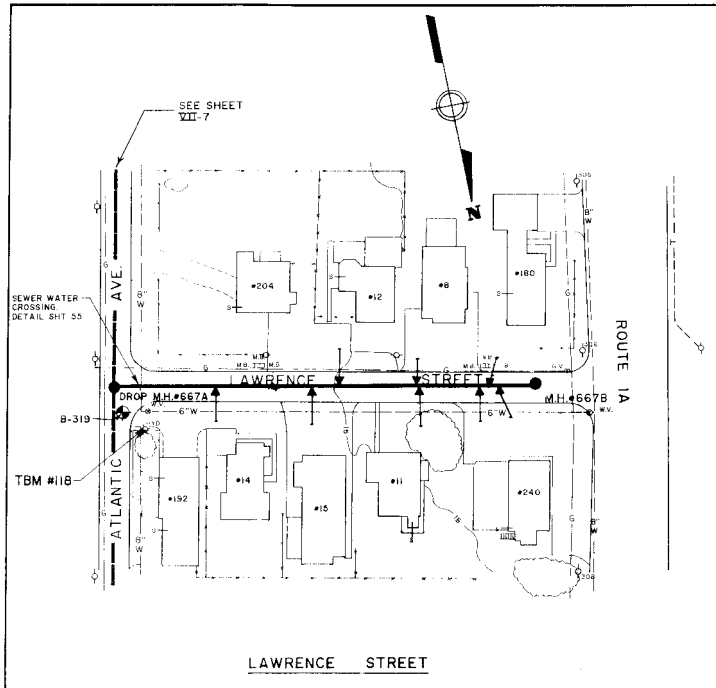
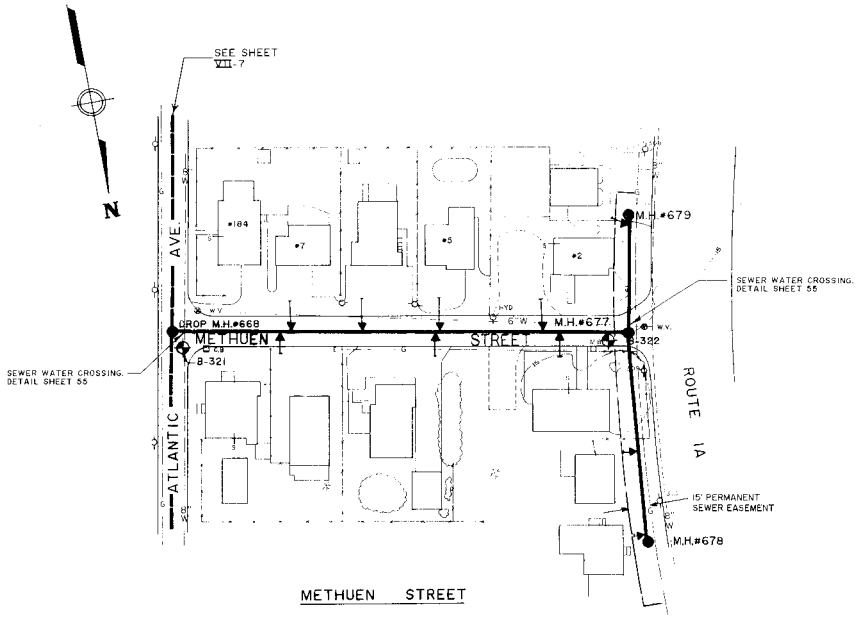


LAWRENCE STREET

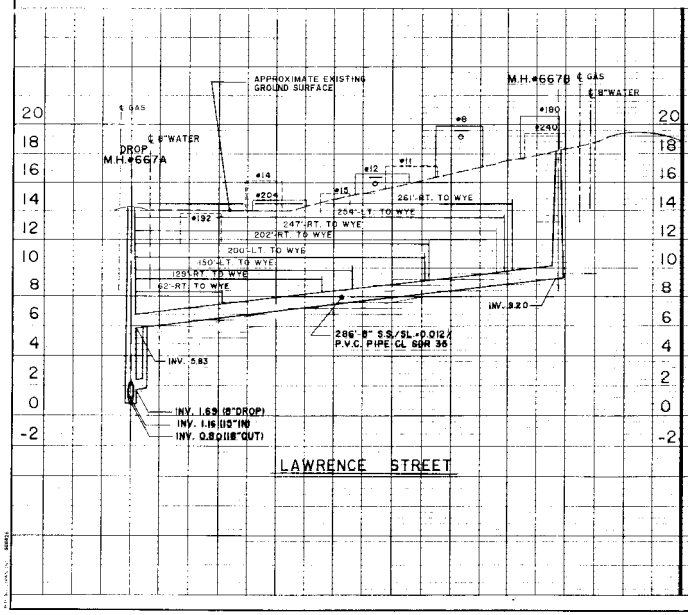
TBM 118 X-CUT IN S.E. BOLT HYDRANT @ N.W. CORNER OF LAWRENCE ST. & ATLANTIC AVE. (IN FRONT OF HOUSE #192) EL. 15.37



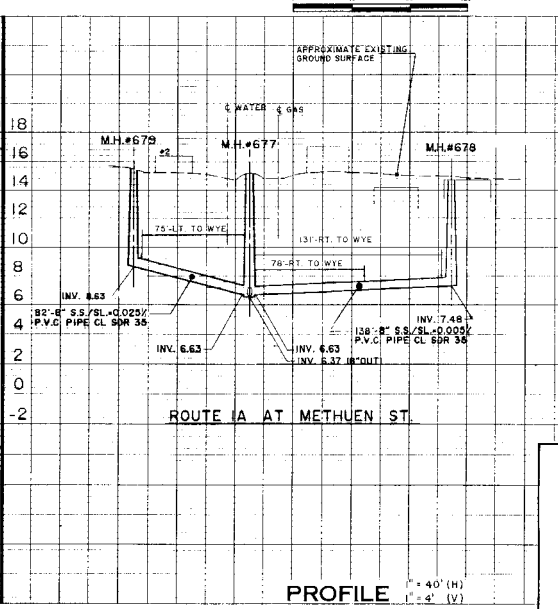
METHUEN STREET

TBM 119 NAIL IN LIGHT POLE #33/412 ON EAST SIDE OF ATLANTIC AVE. OPPOSITE METHUEN ST. (IN FRONT OF HOUSE #183) EL. 15.02

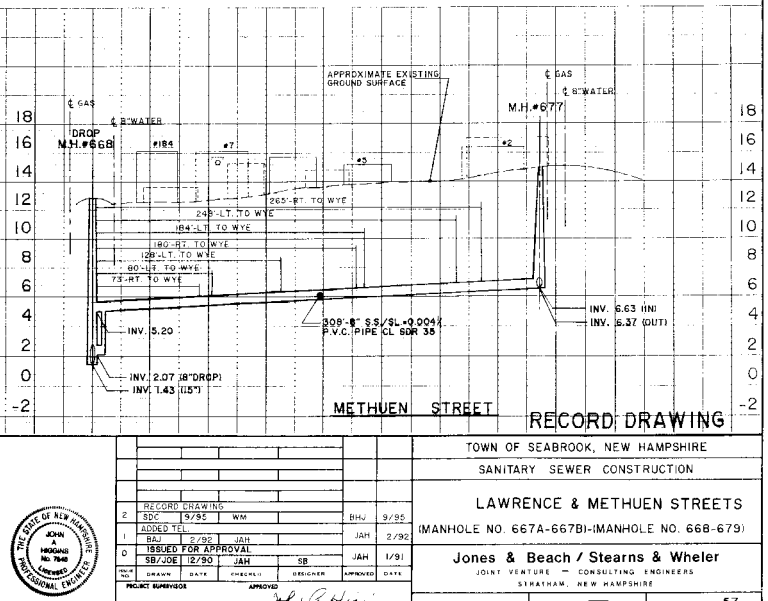
PLAN 1" = 40'



LAWRENCE STREET



ROUTE 1A AT METHUEN ST.



METHUEN STREET

RECORD DRAWING

PROFILE 1" = 40' (H) 1" = 4' (V)

THE STATE OF NEW HAMPSHIRE JOHN A. HUGHES No. 7648 REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	SDC	9/95	WM		BHJ	9/95
1	ADDED TEL.	BAJ	2/92	JAH		JAH	2/92
0	ISSUED FOR APPROVAL	SB/JOE	12/90	JAH	SB	JAH	1/91

PROJECT SURVEYOR(S) APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

LAWRENCE & METHUEN STREETS

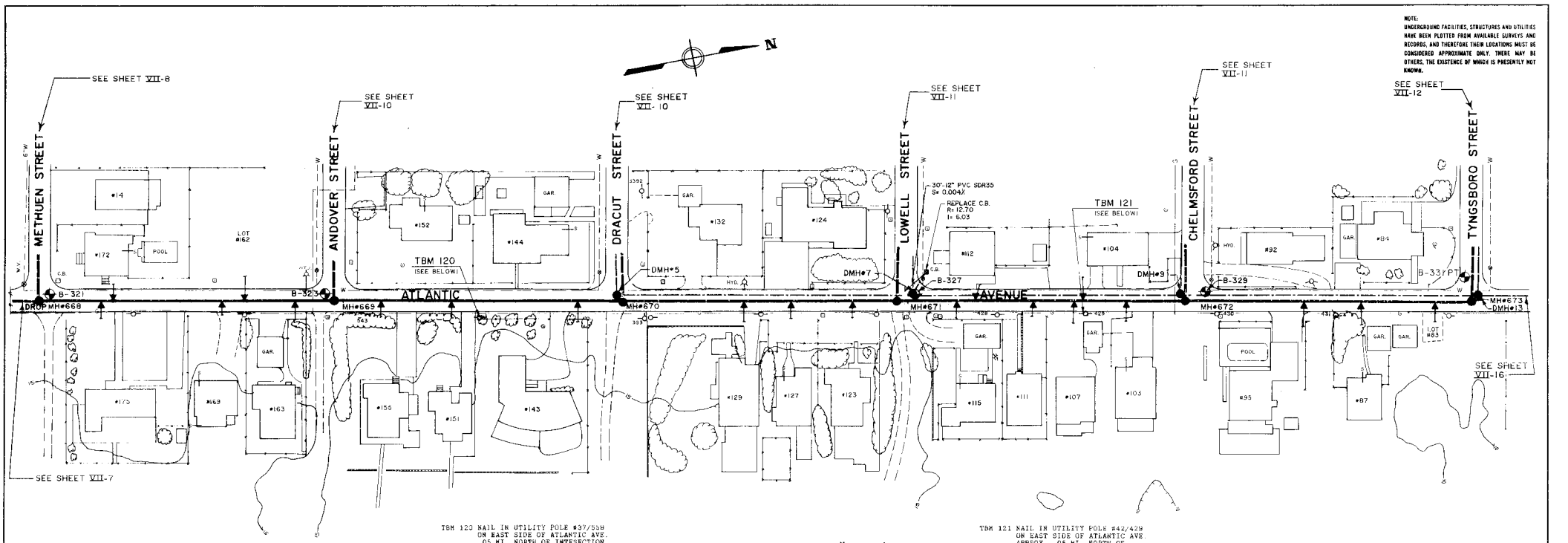
(MANHOLE NO. 667A-667B)-(MANHOLE NO. 668-679)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 8 OF 57


NOTE:
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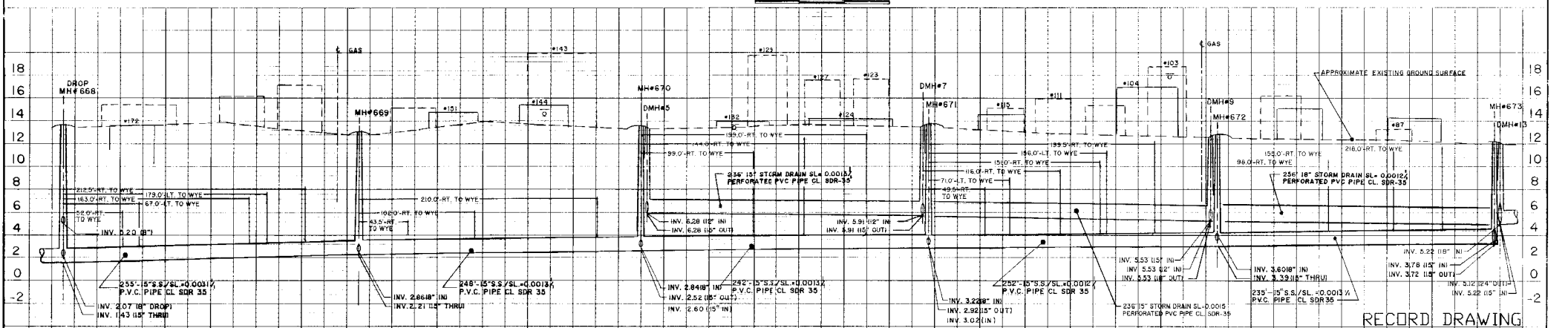
N
SEE SHEET VII-8
SEE SHEET VII-10
SEE SHEET VII-10
SEE SHEET VII-11
SEE SHEET VII-11
SEE SHEET VII-12
METHUEN STREET
ANDOVER STREET
DRACUT STREET
LOWELL STREET
CHELMSFORD STREET
TYNGSBORO STREET
ATLANTIC AVENUE
TBM 120
(SEE BELOW)
TBM 121
(SEE BELOW)
30"-12" PVC SDR35 S= 0.004
REPLACE C.B. R= 12.70 I= 6.03
DROP MH#669
MH#669
MH#670
MH#671
MH#672
MH#673
DMH#5
DMH#7
DMH#9
DMH#13
B-321
B-323
B-327
B-329
B-331
SEE SHEET VII-7
SEE SHEET VII-16
TBM 120 NAIL IN UTILITY POLE #37/558 ON EAST SIDE OF ATLANTIC AVE. .05 MI. NORTH OF INTERSECTION OF ATLANTIC AVE. & ANDOVER ST. (IN FRONT OF HOUSE #143) EL. 15.01
TBM 121 NAIL IN UTILITY POLE #42/429 ON EAST SIDE OF ATLANTIC AVE. APPROX. .05 MI. NORTH OF INTERSECTION OF LOWELL ST. (IN FRONT OF HOUSE #103) EL. 14.00

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE JOHN A HIGGINS NO. 7646 REGISTERED PROFESSIONAL ENGINEER

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
RECORD DRAWING						
3	SDC	9/95	WM		BHJ	9/95
2	REVISED DRAINAGE (PERFORATED PIPE)				BHJ	5/94
	DRT	5/94	BHJ	BHJ		
1	ADDED DRAINAGE				BHJ	9/93
	EM	9/93	BHJ	BHJ		
0	ISSUED FOR APPROVAL				JAH	1/91
	SB/JOE	12/90	JAH	SB		

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

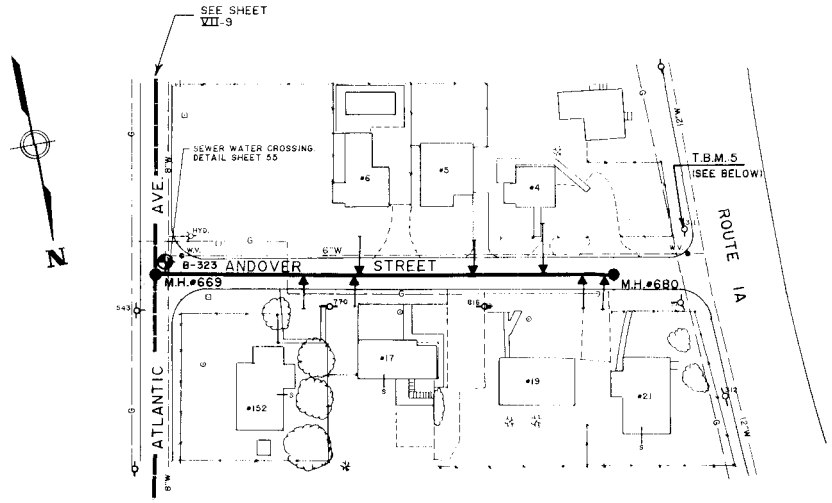
ATLANTIC AVENUE

(MANHOLE NO. 668)-(MANHOLE NO. 673)
(D.M.H. NO. 5)-(D.M.H. NO. 13)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 9 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

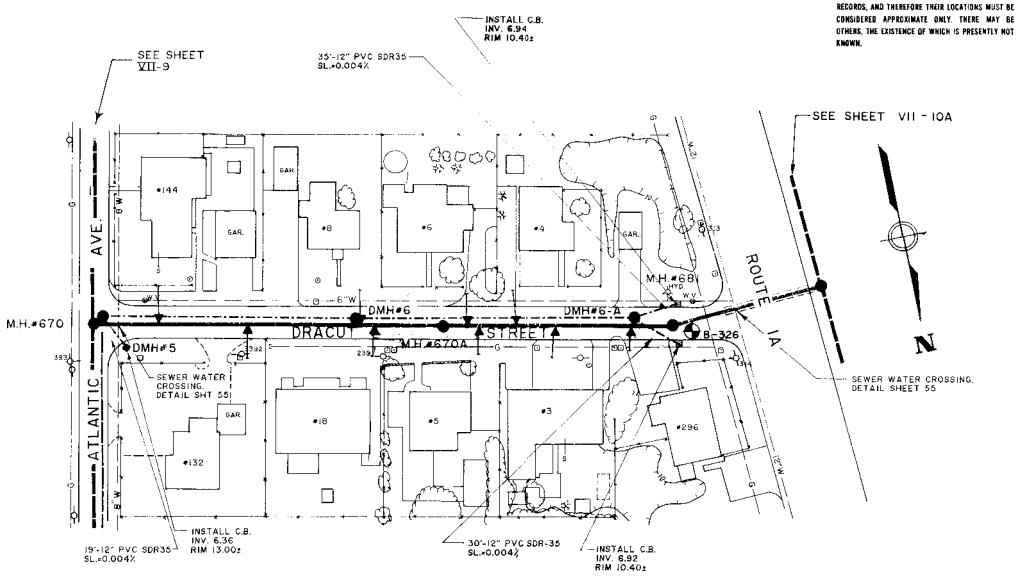


ANDOVER STREET

T.B.M. 5
SIXTY-PENNY NAIL IN LIGHT POLE (POLE NO. 22,30 310) S.E. COR. INTER. ANDOVER ST. & U.S. IA APPROX. .60 MILES N. OF JUNCT. 286 & U.S. IA & 28.7' E. OF CENT. LN. U.S. IA

ELEV. 11.53

TBM 120 NAIL IN UTILITY POLE #37/559 ON EAST SIDE OF ATLANTIC AVE. .05 MI. NORTH OF INTESECTION OF ATLANTIC AVE. & ANDOVER ST. (IN FRONT OF HOUSE #143) EL. 15.01

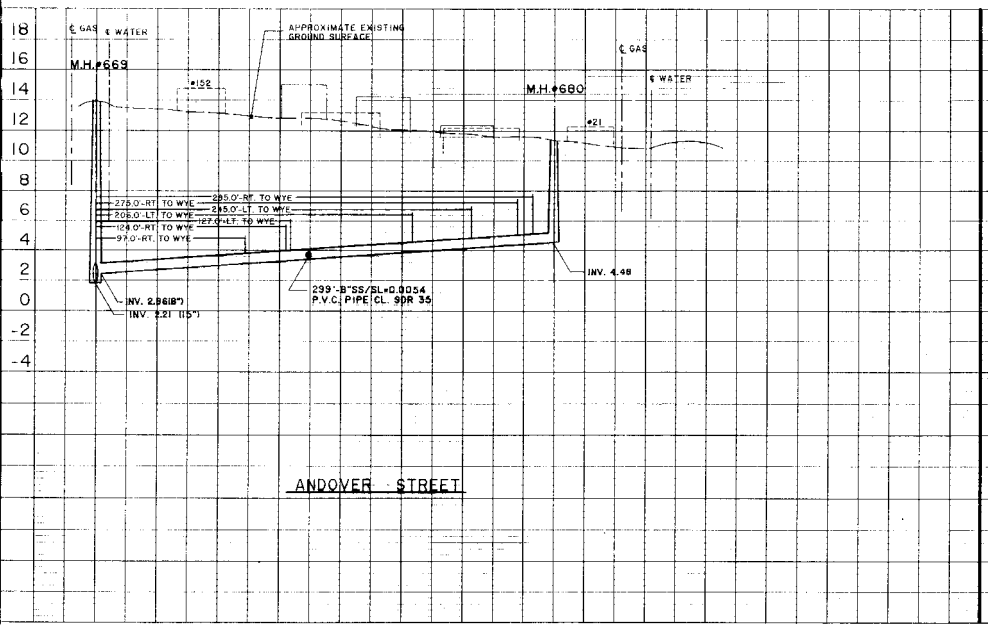


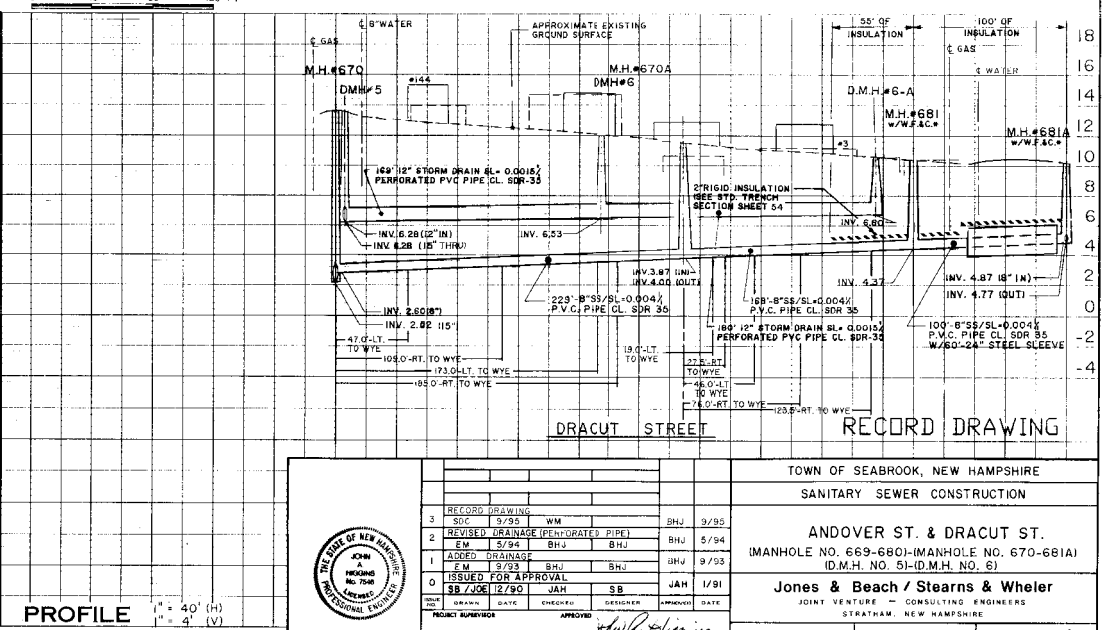
TBM 121 NAIL IN UTILITY POLE #42/429 ON EAST SIDE OF ATLANTIC AVE APPROX. .05 MI. NORTH OF INTERSECTION OF DRACUT ST. (IN FRONT OF HOUSE #105) EL. 14.00

DRACUT STREET

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1"= 40'
0 40 80 120 FT





PROFILE 1" = 40' (H)
1" = 4' (V)

THE STATE OF NEW HAMPSHIRE JOHN A HIGGINS No. 7549 LICENSED PROFESSIONAL ENGINEER

NO.		DATE				
	RECORD DRAWING					
3	SDC	9/95	WM		BHJ	9/95
2	REVISED DRAINAGE (PENTORATED PIPE)				BHJ	5/94
	EM	5/94	BHJ	BHJ		
1	ADDED DRAINAGE				BHJ	9/93
	EM	9/93	BHJ	BHJ		
0	ISSUED FOR APPROVAL				JAH	1/91
	SB / JOE	12/90	JAH	SB		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

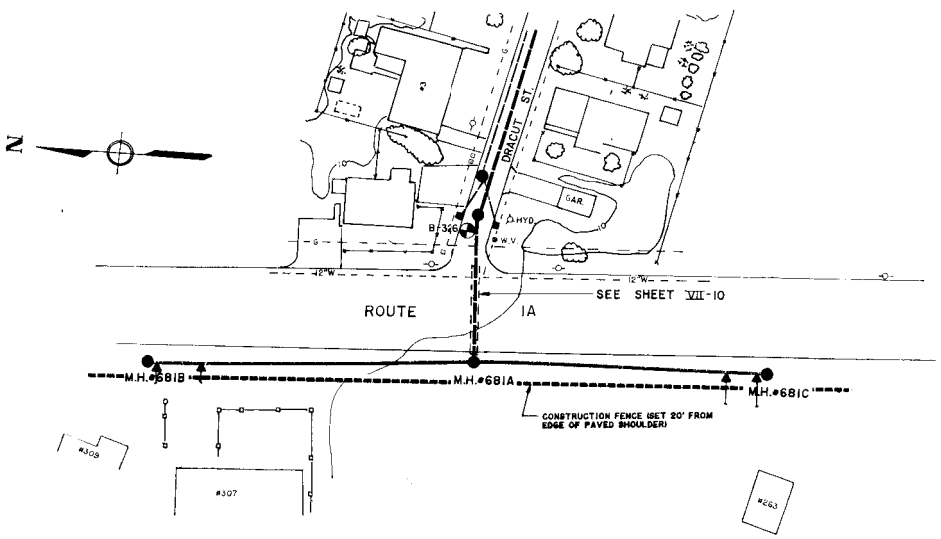
ANDOVER ST. & DRACUT ST.
(MANHOLE NO. 669-680)-(MANHOLE NO. 670-681A)
(D.M.H. NO. 5)-(D.M.H. NO. 6)

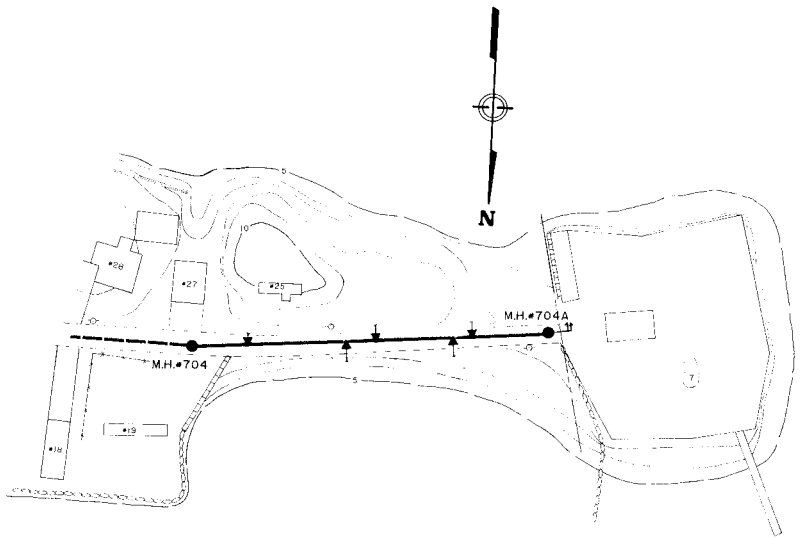
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 10 OF 57

NOTES

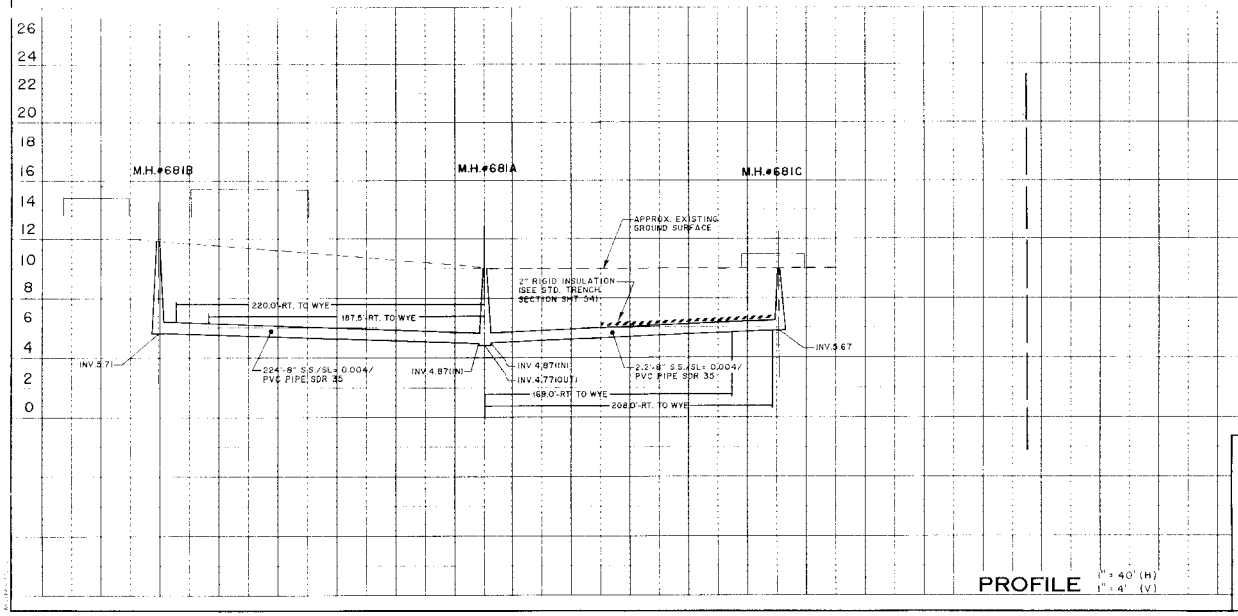
Utilities shown are approximate locations only and have been compiled from available surveys and records, and therefore the exact locations should be considered approximate only. There may be other utilities in the area which are presently not known.

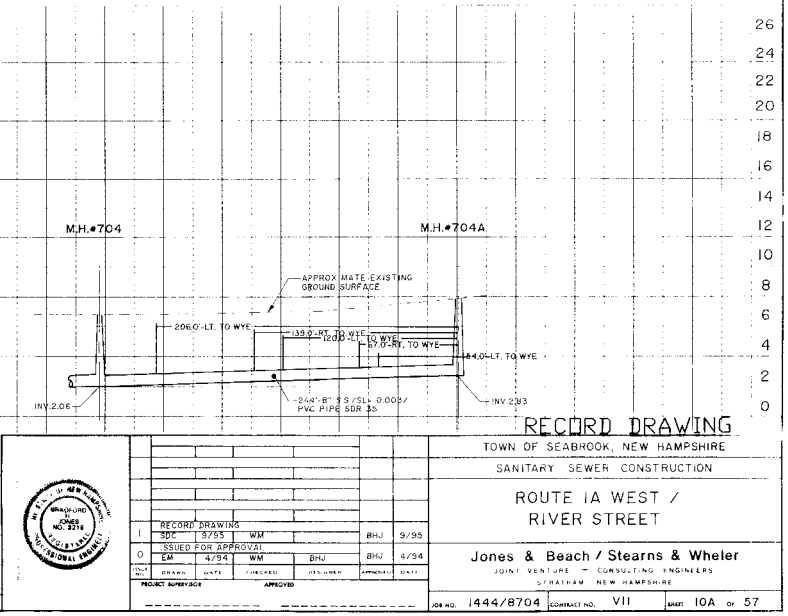




RIVER STREET

PLAN 1" = 40'





PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 1A WEST / RIVER STREET

1	RECORD DRAWING				BHJ	9/95
	SDC	3755	WM			
0	ISSUED FOR APPROVAL				BHJ	4/94
	EM	4/94	WM	BHJ		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SURVEYOR: BRADFORD H. JONES NO. 3216 — APPROVED

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

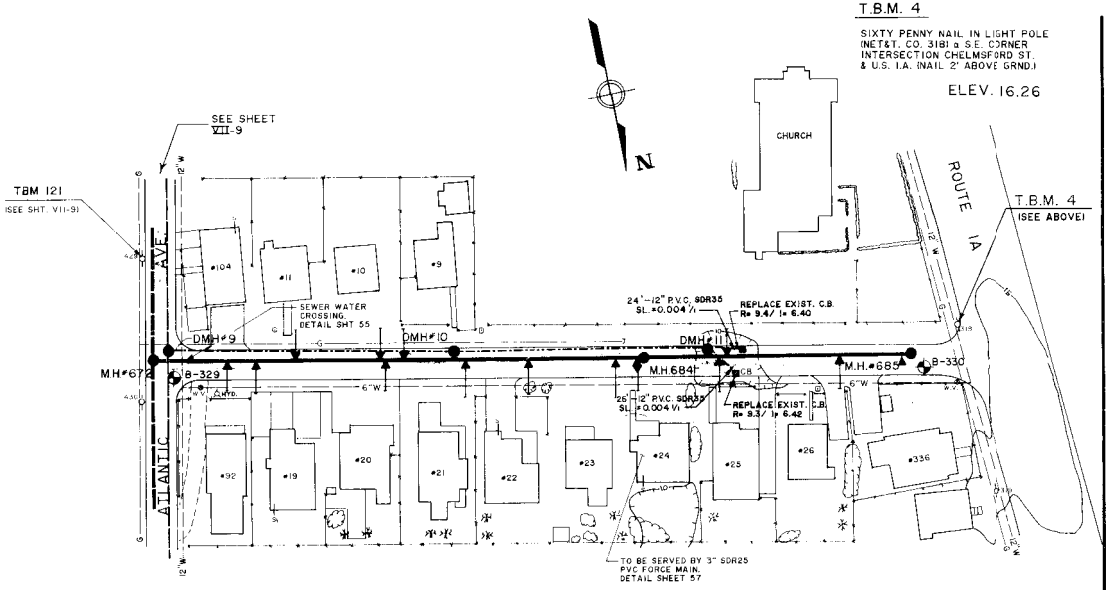
JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 10A OF 57

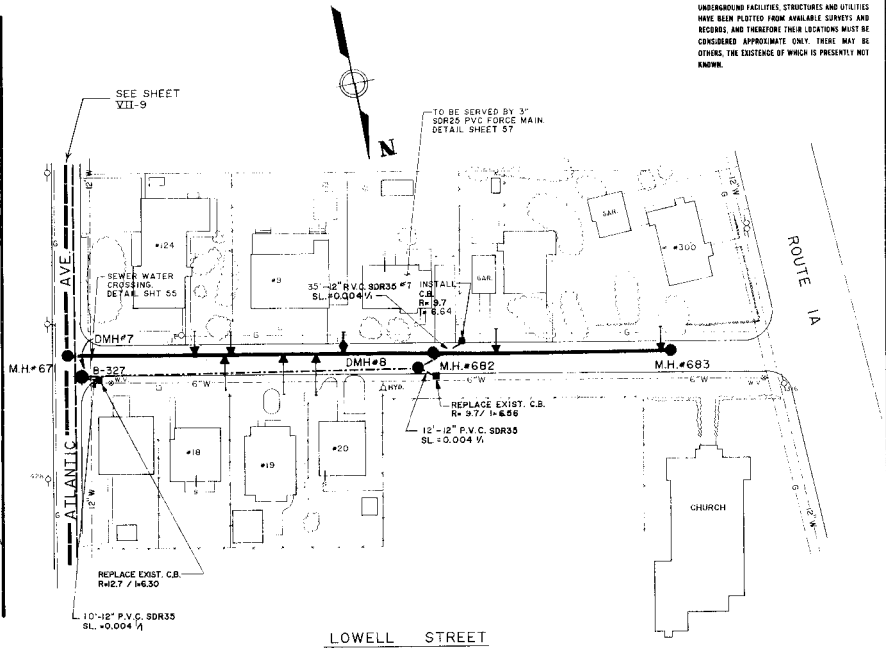
T.B.M. 4

SIXTY PENNY NAIL IN LIGHT POLE (NET&T. CO. 3181 a S.E. CORNER INTERSECTION CHELMSFORD ST. & U.S. I.A. (NAIL 2' ABOVE GRND.)

ELEV. 16.26

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

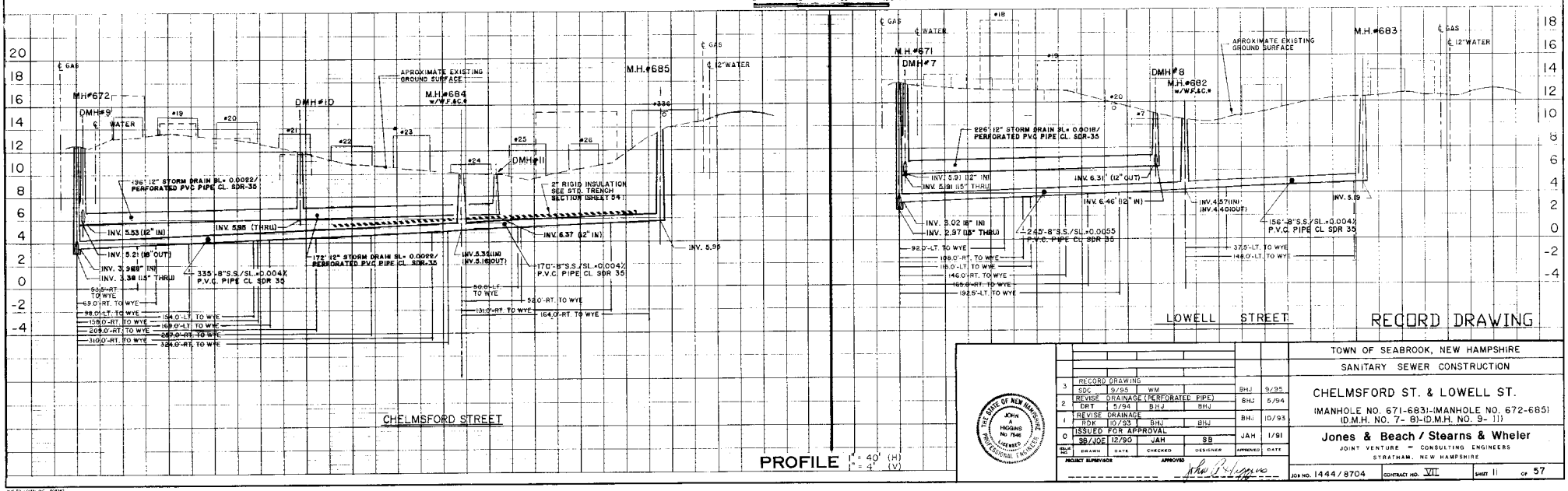




* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	SDC	9/95	WM		BHJ	9/95
2	REVISE DRAINAGE (PERFORATED PIPE)	DRT	5/94	BHJ	BHJ	BHJ	5/94
1	REVISE DRAINAGE	ROK	10/93	BHJ	BHJ	BHJ	10/93
0	ISSUED FOR APPROVAL	SB/JOE	12/90	JAH	SB	JAH	1/91

PROJECT SUPERVISOR: APPROVED

THE STATE OF NEW HAMPSHIRE — JOHN A. HIGGINS No. 7546 — LICENSED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

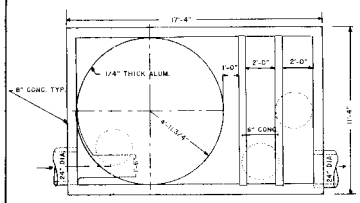
SANITARY SEWER CONSTRUCTION

CHELMSFORD ST. & LOWELL ST.

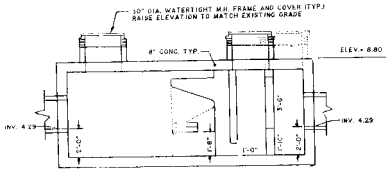
(MANHOLE NO. 671-683)-(MANHOLE NO. 672-685)
(D.M.H. NO. 7- 8)-(D.M.H. NO. 9- 11)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 11 OF 57



PLAN VIEW



ELEVATION VIEW

OIL AND GRIT TRAP
CROSS BEACH ROAD

SCALE 1"= 4'

0 4 8

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

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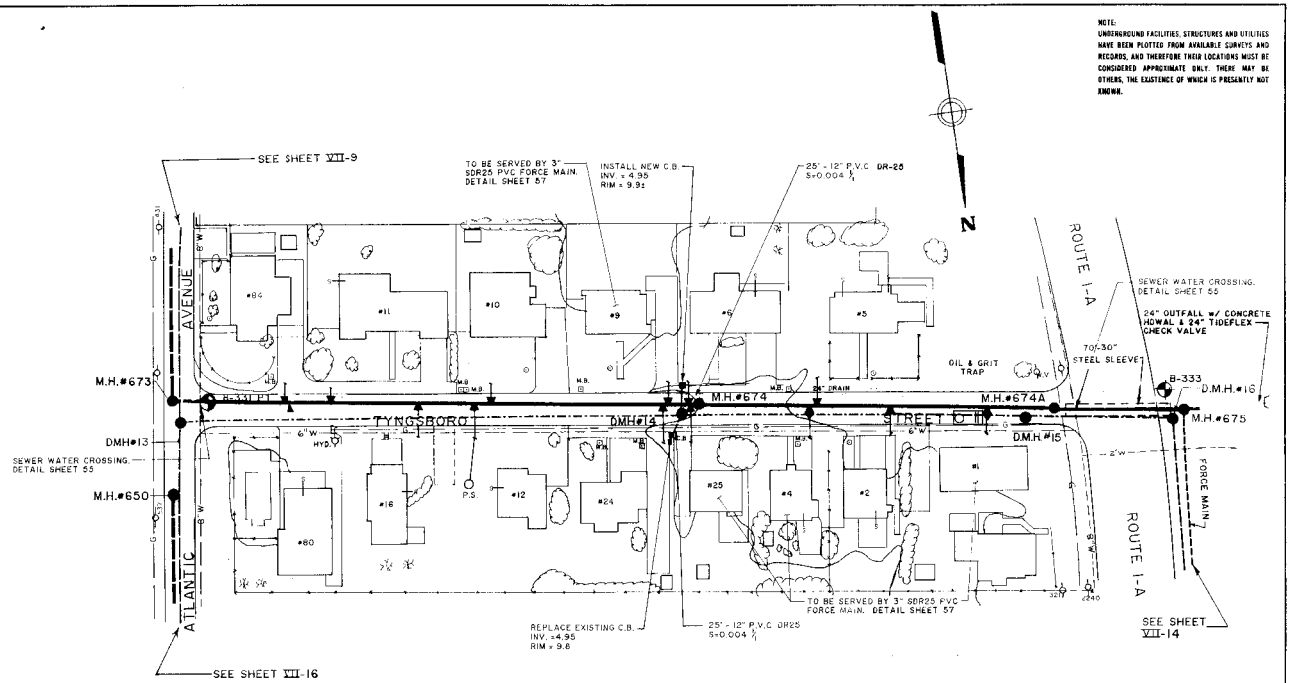
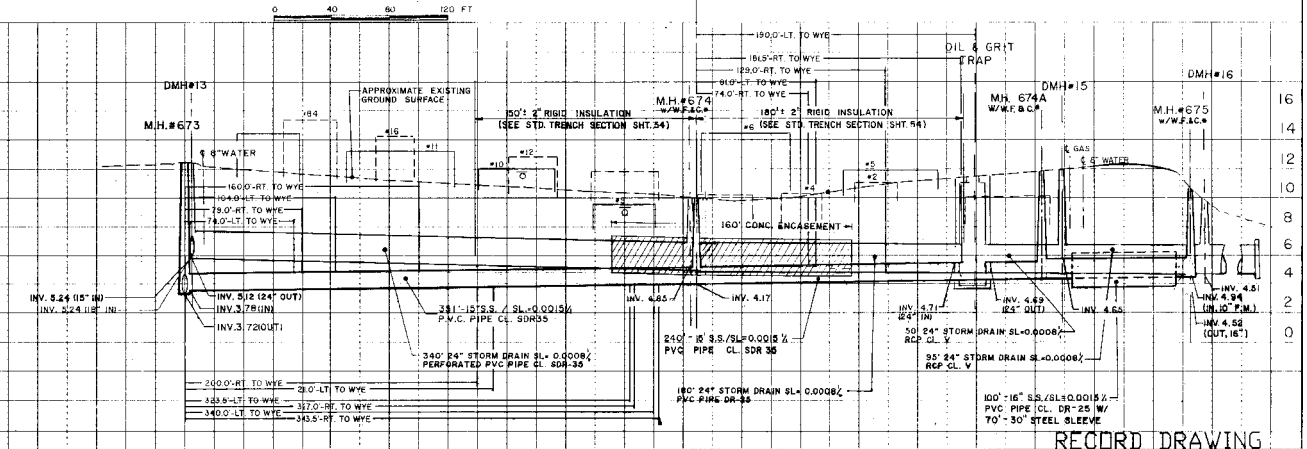


PLAN 1"= 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

5	RECORD DRAWING				BHJ	9/95
	SDC	9/95	WM			
4	REVISE DRAINAGE (PERFORATED PIPE)				BHJ	5/94
	DRT	5/94	BHJ	BHJ		
3	REVISE DRAINAGE & OUTFALL				RBJ	4/94
	EM	4/94	RBJ	RBJ		
2	REVISE PIPE SIZE AT RD. CROSSING ADD INS.				RBJ	11/93
	DRT	11/93	RBJ	RBJ		
1	REVISED DRAINAGE				RBJ	9/93
	RDK	9/93	RBJ	RBJ		
0	ISSUED FOR APPROVAL				JAH	1/91
	WM/JOE	12/90	JAH	SB		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR: APPROVED: John A Higgins

THE STATE OF NEW HAMPSHIRE — JOHN A HIGGINS No. 7846 — LICENSED PROFESSIONAL ENGINEER

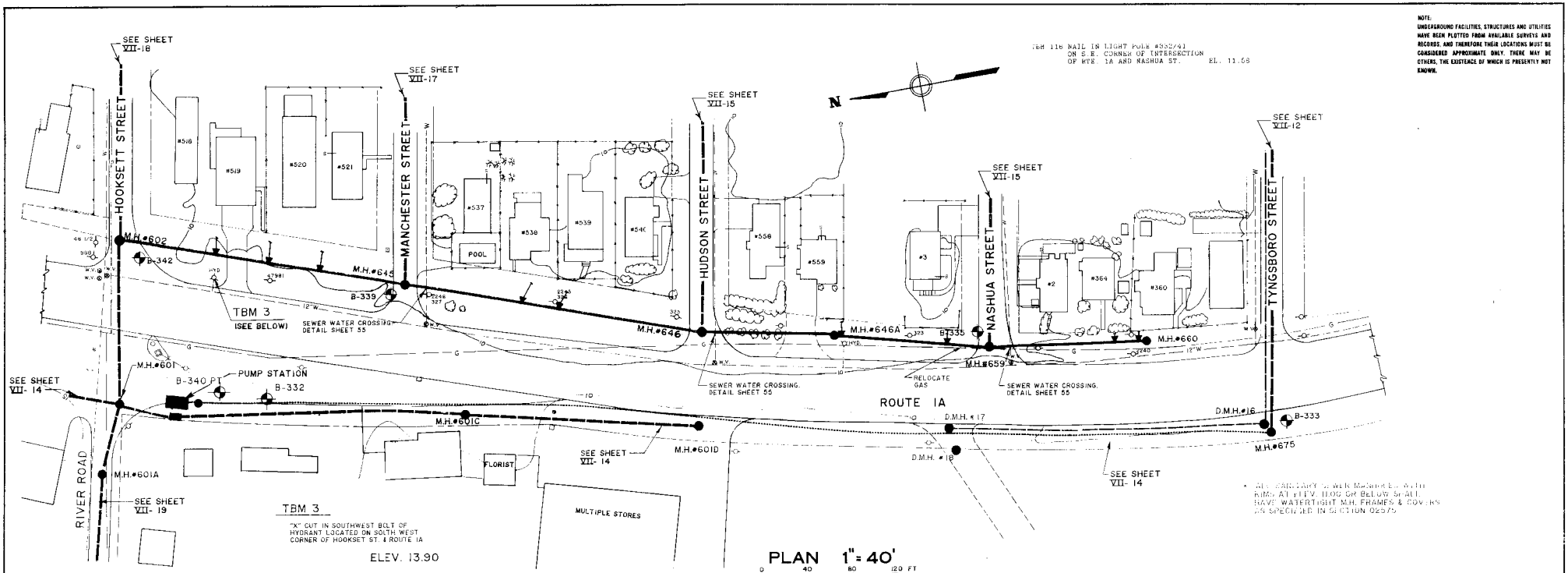
TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

TYNGSBORO STREET
(MANHOLE NO. 673)-(MANHOLE NO. 675)
(D.M.H. NO. 12)-(D.M.H. NO. 16)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 12 OF 57



NOTE:
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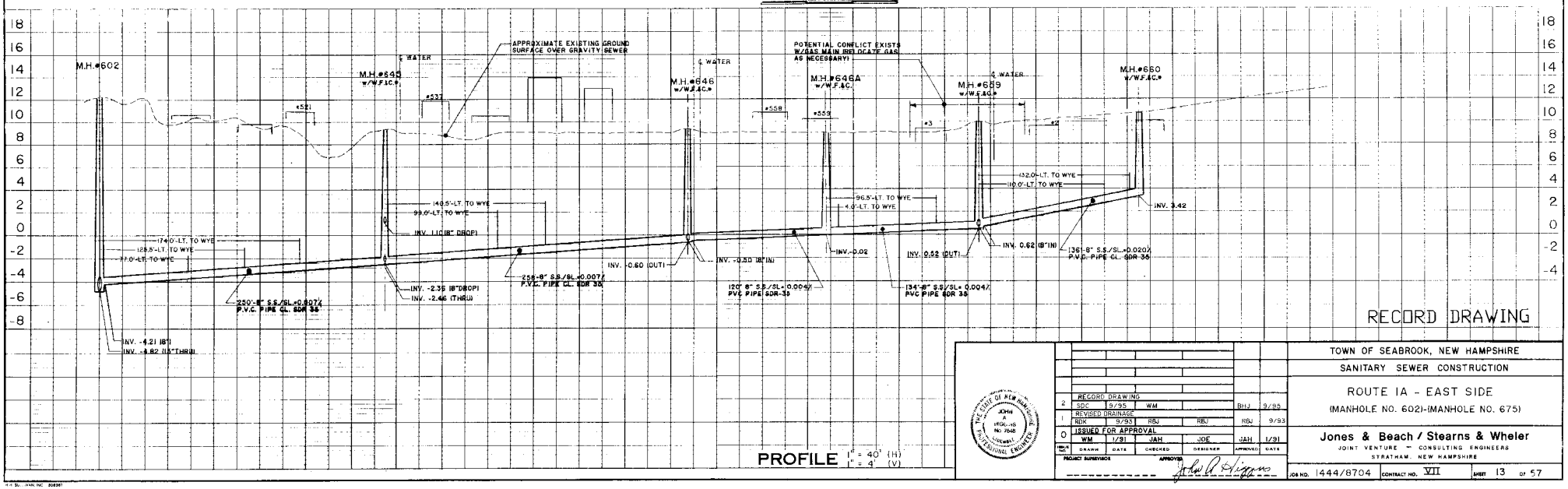
* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT MH. FRAMES & COVERS AS SPECIFIED IN SECTION 02575



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

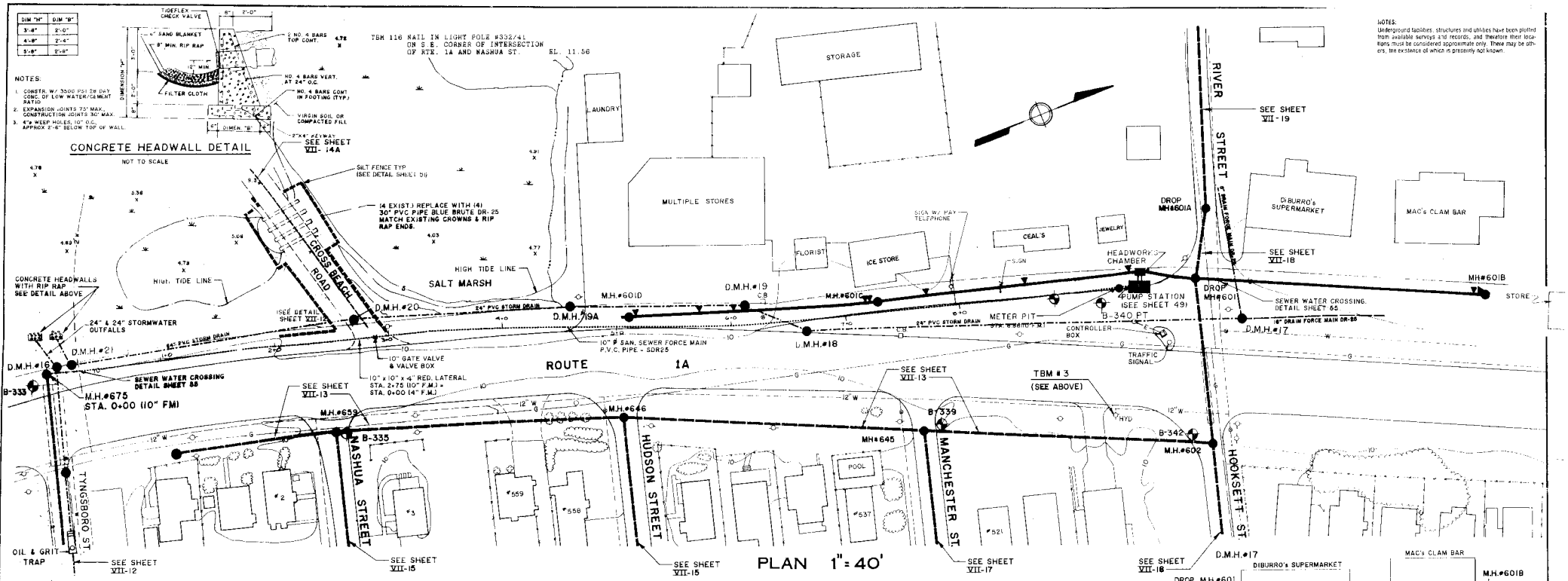
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING SDC	9/95	WM		RBJ	9/95
1	REVISED DRAINAGE RDK	9/93	RBJ	RBJ	RBJ	9/93
0	ISSUED FOR APPROVAL WM	1/91	JAH	JOE	JAH	1/91

PROJECT SURVEYOR _____ APPROVED _____

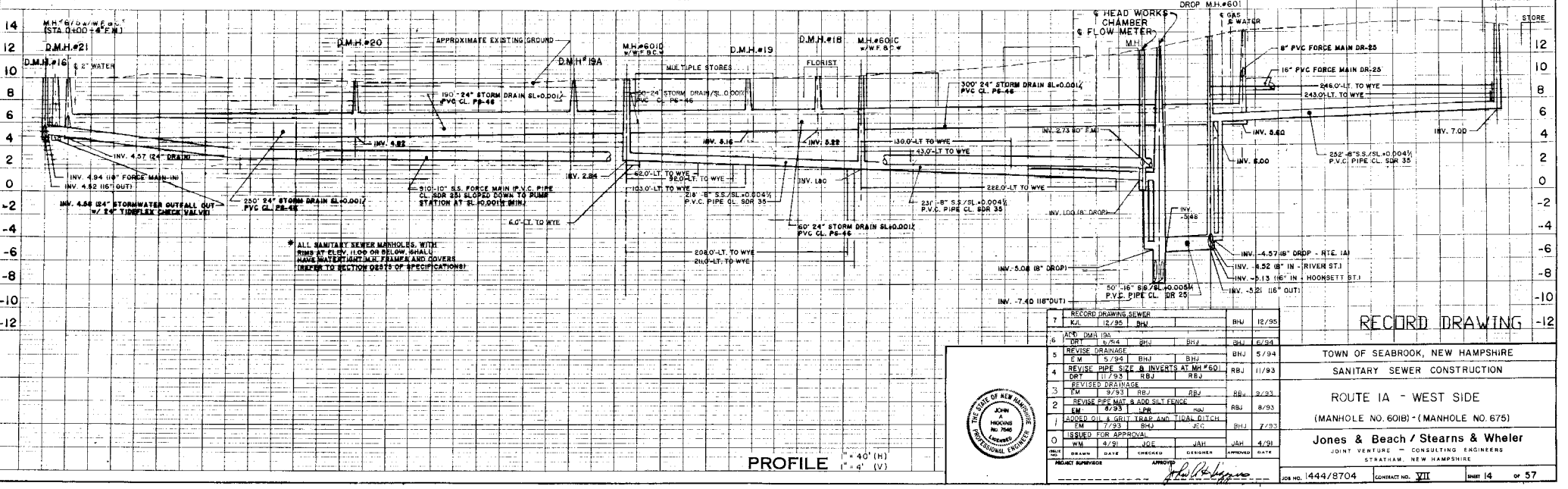
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
ROUTE IA - EAST SIDE
(MANHOLE NO. 602)-(MANHOLE NO. 675)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 13 OF 57



NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.


M.H.#675 (STA. 0+00 ± 4" F.M.)
D.M.H.#21
D.M.H.#16
D.M.H.#20
APPROXIMATE EXISTING GROUND
D.M.H.#19A
M.H.#601D w/W.F.B.C.W.
D.M.H.#19
D.M.H.#18
M.H.#601C w/W.F.B.C.W.
MULTIPLE STORES
FflorIST
HEAD WORKS CHAMBER & FLOW METER
M.H.
DROP M.H.#601
GAS & WATER
DIBURRO's SUPERMARKET
MAC's CLAM BAR
M.H.#601B
STORE
8" PVC FORCE MAIN DR-25
16" PVC FORCE MAIN DR-25
246.0'-LT. TO WYE
243.0'-LT. TO WYE
190'-24" STORM DRAIN SL=0.001¼ PVC CL. PS-46
50'-24" STORM DRAIN/SL 0.001¼ PVC CL. PS-46
300' 24" STORM DRAIN SL=0.001¼ PVC CL. PS-46
INV. 4.82
INV. 8.16
INV. 8.22
INV. 2.73 (10" F.M.)
INV. 8.60
INV. 7.00
INV. 4.57 (24" DRAIN)
INV. 4.94 (16" FORCE MAIN IN)
INV. 4.62 (16" OUT)
INV. 4.56 (24" STORMWATER OUTFALL OUT w/ 24" TIDEFLEX CHECK VALVE)
250' 24" STORM DRAIN SL=0.001¼ PVC CL. PS-46
510'-10" S.S. FORCE MAIN (P.V.C. PIPE CL. SDR 25) SLOPED DOWN TO PUMP STATION AT SL=0.001¼ MIN.)
INV. 2.84
62.0'-LT. TO WYE
92.0'-LT. TO WYE
103.0'-LT. TO WYE
130.0'-LT. TO WYE
43.0'-LT. TO WYE
218'-8" S.S./SL=0.004¼ P.V.C. PIPE CL. SDR 35
INV. 1.80
231'-8" S.S./SL=0.004¼ P.V.C. PIPE CL. SDR 35
222.0'-LT. TO WYE
252'-8" S.S./SL=0.004¼ P.V.C. PIPE CL. SDR 35
INV. 6.00
INV. 1.00 (8" DROP)
INV. -.548
50'-16" S.S./SL=0.005¼ P.V.C. PIPE CL. DR 25
INV. -4.57 (8" DROP - RTE. 1A)
INV. -5.52 (8" IN - RIVER ST.)
INV. -5.13 (16" IN - HOOKSETT ST.)
INV. -5.21 (16" OUT)
INV. -5.08 (8" DROP)
INV. -7.40 (16" OUT)
60' 24" STORM DRAIN SL=0.001¼ PVC CL. PS-46
208.0'-LT. TO WYE
214.0'-LT. TO WYE
6.0'-LT. TO WYE
* ALL SANITARY SEWER MANHOLES, WITH RIMS AT ELEV. 11.00 OR BELOW, SHALL HAVE WATERTIGHT INLH TYLUFIX AND COVERS (REFER TO SECTION 02575 OF SPECIFICATIONS)
PROFILE 1" = 40' (H) 1" = 4' (V)

7	RECORD DRAWING SEWER				BHJ	12/95
	KJL	12/95	BHJ			
6	ADD DMH 19A				BHJ	6/94
	DRY	6/94	BHJ	BHJ		
5	REVISE DRAINAGE				BHJ	5/94
	EM	5/94	BHJ	BHJ		
4	REVISE PIPE SIZE & INVERTS AT MH #601				RBJ	11/93
	DRY	11/93	RBJ	RBJ		
3	REVISED DRAINAGE				RBJ	9/93
	EM	9/93	RBJ	RBJ		
2	REVISE PIPE MAT & ADD SILT FENCE				RBJ	8/93
	EM	8/93	LPR	RBJ		
1	ADDED OIL & GRIT TRAP AND TIDAL DITCH				BHJ	7/93
	EM	7/93	BHJ	JSC		
0	ISSUED FOR APPROVAL				JAH	4/91
	WM	4/91	JOE	JAH		
DELTA NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

THE STATE OF NEW HAMPSHIRE — JOHN A HIGGINS No. 7565 LICENSED PROFESSIONAL ENGINEER

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 1A - WEST SIDE

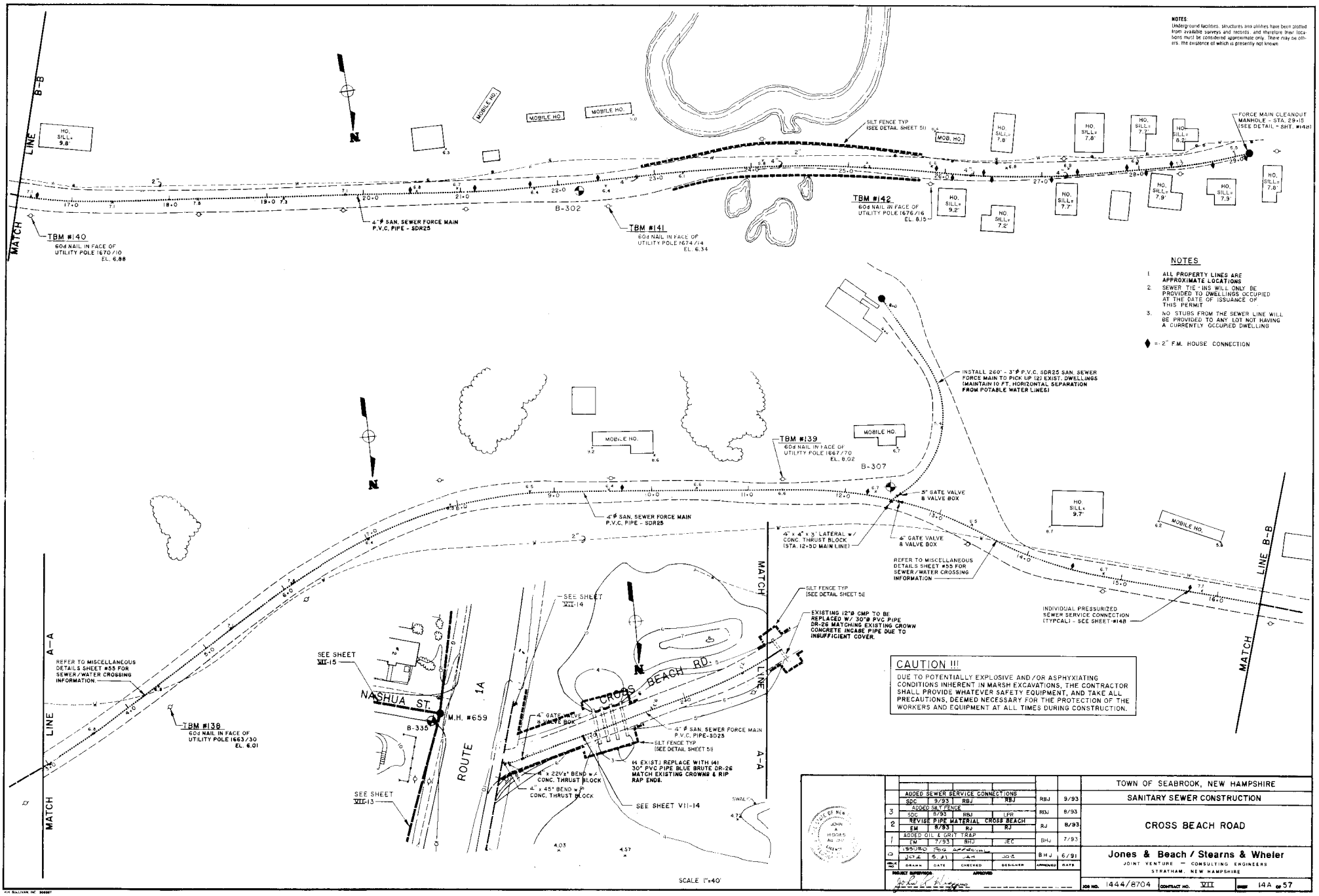
(MANHOLE NO. 601B) - (MANHOLE NO. 675)

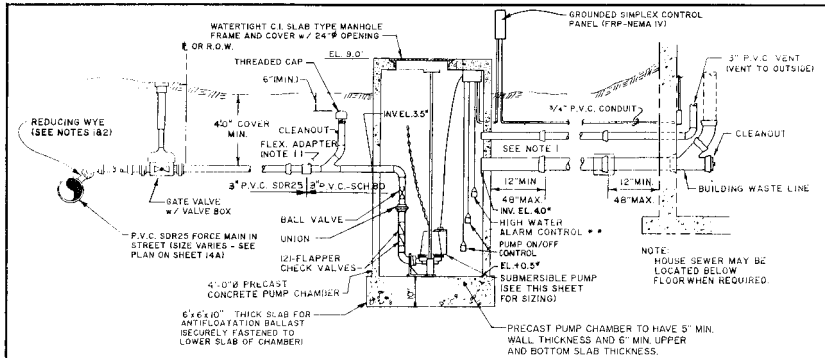
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 14 OF 57


NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.
MATCH LINE B-B
MATCH LINE A-A
TBM #140
60d NAIL IN FACE OF UTILITY POLE 1670/10
EL. 6.88
4"ø SAN. SEWER FORCE MAIN P.V.C. PIPE - SDR25
B-302
TBM #141
60d NAIL IN FACE OF UTILITY POLE 1674/14
EL. 6.34
TBM #142
60d NAIL IN FACE OF UTILITY POLE 1676/16
EL. 8.15
SILT FENCE TYP (SEE DETAIL SHEET 5II)
FORCE MAIN CLEANOUT MANHOLE - STA. 29+15 (SEE DETAIL - SHT. #14B)
MOBILE HO.
HO. SILL= 9.8'
HO. SILL= 7.8'
HO. SILL= 7.7'
HO. SILL= 8.5'
HO. SILL= 7.9'
HO. SILL= 9.2'
HO. SILL= 7.2'
NOTES
1. ALL PROPERTY LINES ARE APPROXIMATE LOCATIONS
2. SEWER TIE-INS WILL ONLY BE PROVIDED TO DWELLINGS OCCUPIED AT THE DATE OF ISSUANCE OF THIS PERMIT
3. NO STUBS FROM THE SEWER LINE WILL BE PROVIDED TO ANY LOT NOT HAVING A CURRENTLY OCCUPIED DWELLING
♦ = 2" F.M. HOUSE CONNECTION
INSTALL 260'-3"ø P.V.C. SDR25 SAN. SEWER FORCE MAIN TO PICK UP (2) EXIST. DWELLINGS (MAINTAIN 10 FT. HORIZONTAL SEPARATION FROM POTABLE WATER LINES)
TBM #139
60d NAIL IN FACE OF UTILITY POLE 1667/70
EL. 8.02
B-307
3" GATE VALVE & VALVE BOX
4" x 4" x 3" LATERAL w/ CONC. THRUST BLOCK (STA. 12+50 MAIN LINE)
4" GATE VALVE & VALVE BOX
REFER TO MISCELLANEOUS DETAILS SHEET #55 FOR SEWER/WATER CROSSING INFORMATION
INDIVIDUAL PRESSURIZED SEWER SERVICE CONNECTION (TYPCAL) - SEE SHEET #14B
REFER TO MISCELLANEOUS DETAILS SHEET #55 FOR SEWER/WATER CROSSING INFORMATION.
TBM #138
60d NAIL IN FACE OF UTILITY POLE 1663/30
EL. 6.01
SEE SHEET VII-15
NASHUA ST.
M.H. #659
B-335
ROUTE 1A
SEE SHEET VII-14
SILT FENCE TYP (SEE DETAIL SHEET 5II)
EXISTING 12"ø CMP TO BE REPLACED W/ 30"ø PVC PIPE DR-26 MATCHING EXISTING CROWN CONCRETE INCASE PIPE DUE TO INSUFFICIENT COVER.
CROSS BEACH RD.
4" GATE VALVE & VALVE BOX
4"ø SAN. SEWER FORCE MAIN P.V.C. PIPE-SDR25
SILT FENCE TYP (SEE DETAIL SHEET 5II)
(4 EXIST.) REPLACE WITH (4) 30" PVC PIPE BLUE BRUTE DR-26 MATCH EXISTING CROWNS & RIP RAP ENDS.
4" x 22½° BEND w/ CONC. THRUST BLOCK
4" x 45° BEND w/ CONC. THRUST BLOCK
SEE SHEET VII-13
SEE SHEET VII-14
SWALE
CAUTION !!!
DUE TO POTENTIALLY EXPLOSIVE AND/OR ASPHYXIATING CONDITIONS INHERENT IN MARSH EXCAVATIONS, THE CONTRACTOR SHALL PROVIDE WHATEVER SAFETY EQUIPMENT, AND TAKE ALL PRECAUTIONS, DEEMED NECESSARY FOR THE PROTECTION OF THE WORKERS AND EQUIPMENT AT ALL TIMES DURING CONSTRUCTION.
SCALE 1"=40'
ADDED SEWER SERVICE CONNECTIONS SDC 9/93 RBJ RBJ 9/93
3 ADDED SILT FENCE SDC 8/93 RBJ LPR RBJ 8/93
2 REVISE PIPE MATERIAL CROSS BEACH EM 8/93 RJ RJ RJ 8/93
1 ADDED OIL & GRIT TRAP EM 7/93 BHJ JEC BHJ 7/93
0 ISSUED FOR APPROVAL JCE 6/91 AJS JCE BHJ 6/91
DRAWN DATE CHECKED DESIGNER APPROVED DATE
PROJECT SURVEYOR APPROVED
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
CROSS BEACH ROAD
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE
JOB NO. 1444/8704 CONTRACT NO. VII SHEET 14A OF 57


WATERTIGHT C.I. SLAB TYPE MANHOLE FRAME AND COVER w/ 24"ø OPENING
GROUNDED SIMPLEX CONTROL PANEL (FRP-NEMA IV)
℄ OR R.O.W.
EL. 9.0'
THREADED CAP
6"(MIN.)
3" P.V.C. VENT (VENT TO OUTSIDE)
REDUCING WYE (SEE NOTES 1&2)
40" COVER MIN.
CLEANOUT
INV.EL.3.5'
FLEX. ADAPTER (NOTE 1)
¾" P.V.C. CONDUIT
CLEANOUT
SEE NOTE 1
3"ø P.V.C. SDR25
2"ø P.V.C.-SCH.80
12"MIN.
48"MAX
48"MAX
12"MIN.
BUILDING WASTE LINE
GATE VALVE w/ VALVE BOX
BALL VALVE
UNION
INV. EL. 4.0'
HIGH WATER ALARM CONTROL * *
PUMP ON/OFF CONTROL
EL 4.0.5'
P.V.C. SDR25 FORCE MAIN IN STREET (SIZE VARIES - SEE PLAN ON SHEET 14A)
(2)-FLAPPER CHECK VALVES
SUBMERSIBLE PUMP (SEE THIS SHEET FOR SIZING)
4'-0"ø PRECAST CONCRETE PUMP CHAMBER
NOTE: HOUSE SEWER MAY BE LOCATED BELOW FLOOR WHEN REQUIRED.
6'x6'x10" THICK SLAB FOR ANTIFLOATATION BALLAST (SECURELY FASTENED TO LOWER SLAB OF CHAMBER)
PRECAST PUMP CHAMBER TO HAVE 5" MIN. WALL THICKNESS AND 6" MIN. UPPER AND BOTTOM SLAB THICKNESS.

NOTES:

1) JOINTS SHALL BE DEPENDENT UPON A NEOPRENE OR ELASTOMERIC GASKET FOR WATERTIGHTNESS. ALL JOINTS SHALL BE PROPERLY MATCHED WITH THE PIPE MATERIALS USED. WHERE DIFFERING MATERIALS ARE TO BE CONNECTED, AS AT THE STREET SEWER WYE OR, AT THE FOUNDATION WALL, APPROPRIATE MANUFACTURED ADAPTERS SHALL BE USED.

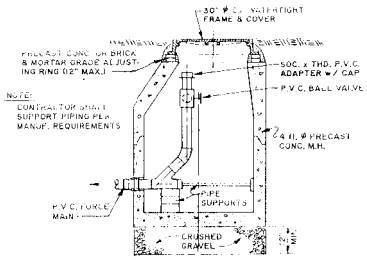
2) WYES: WHENEVER A WYE IS NOT AVAILABLE IN THE EXISTING STREET SEWER, AN APPROPRIATE CONNECTION SHALL BE MADE FOLLOWING MANUFACTURERS INSTRUCTIONS USING A BOLTED, CLAMPED, OR EPOXY CEMENTED SADDLE, TAPPED INTO A SMOOTHLY DRILLED OR SAWN OPENING IN THE SEWER. THE PRACTICE OF BREAKING AN OPENING WITH A SLEDGE HAMMER, STUFFING CLOTH OR OTHER SUCH MATERIAL AROUND THE JOINT, OR APPLYING MORTAR TO HOLD THE CONNECTION, AND ANY OTHER SIMILAR CRUDE PRACTICES OR INEPT OR HASTY IMPROVISATION WILL NOT BE PERMITTED. THE CONNECTION SHALL BE CONCRETE ENCASED (SEE DETAIL ON THIS SHEET)

3) CONCRETE: CONCRETE SHALL CONFORM TO THE REQUIREMENTS FOR CLASS A (3000 PSI) CONCRETE OF THE N.H. DEPARTMENT OF PUBLIC WORKS AND HIGHWAY STANDARD SPECIFICATIONS AS FOLLOWS:
WATER: 5.75 GALS./BAG OF CEMENT
CEMENT: 6.0 BAGS/C.Y.
AGGREGATE: 1½" MAX.

* * HIGH WATER ALARM CONTROL SHALL BE ELECTRONICALLY INTERLOCKED WITH A TELEMETRY SYSTEM. RECEIVING STATIONS SHALL BE LOCATED AT THE WASTEWATER TREATMENT FACILITY

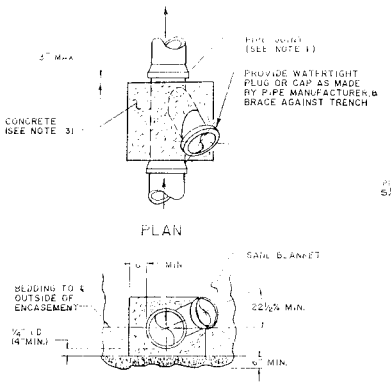
INDIVIDUAL PRESSURIZED SEWER SERVICE

NO SCALE


30" ø C.I. WATERTIGHT FRAME & COVER
PRECAST CONC. OR BRICK & MORTAR GRADE AS ADJUSTING RING (12" MAX.)
SOC. x THD. P.V.C. ADAPTER w/ CAP
P.V.C. BALL VALVE
NOTE: CONTRACTOR SHALL SUPPORT PIPING PER MANUF. REQUIREMENTS
4'-0" ø PRECAST CONC. M.H.
P.V.C. FORCE MAIN
PIPE SUPPORTS
CRUSHED GRAVEL

FORCE MAIN CLEANOUT MANHOLE

NO SCALE



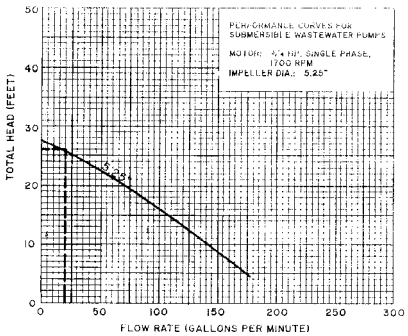
CONCRETE FULL ENCASEMENT

ASSUMPTIONS:

25% OF THE 23 UNITS ARE OPERATING SIMULTANEOUSLY WITH THE ROUTE 1A PUMP STATION OPERATING
INDIVIDUAL PUMP STATIONS ARE SIMPLEX, NON-CLOG DESIGN
PUMP CAPACITY IS 20 GPM

CALCULATIONS:

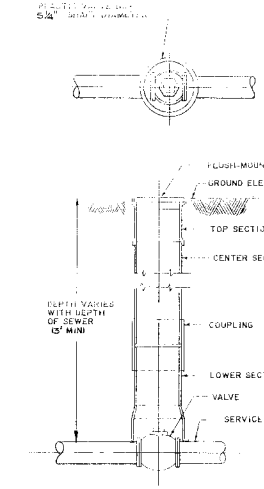
VELOCITY HEAD	= 0.00'
FRICTION HEAD	= 20.00'
STATIC HEAD = 6.00' - 0.00'	= 6.00'
TOTAL DYNAMIC HEAD (TDH)	= 26.00'



PUMP CURVE FOR INDIVIDUAL HOME

NOTES:

1. Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.



TYPICAL IN-GROUND VALVE

NOTE:

* ELEVATIONS ESTABLISHED HERE ARE THE RESPONSIBILITY OF THE CONTRACTOR AND NOT THE ENGINEER. SEE LETTER, JULY 27, 1994.

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	ADDED INV. EL TO INDIV. PUMP STATION *	12/12		JC	BHJ		12/12
0	ISSUED FOR APPROVAL	JOE	6/91	JAH	JOE	BHJ	6/91

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CROSS BEACH ROAD
FORCE MAIN & PUMP STATION DETAILS

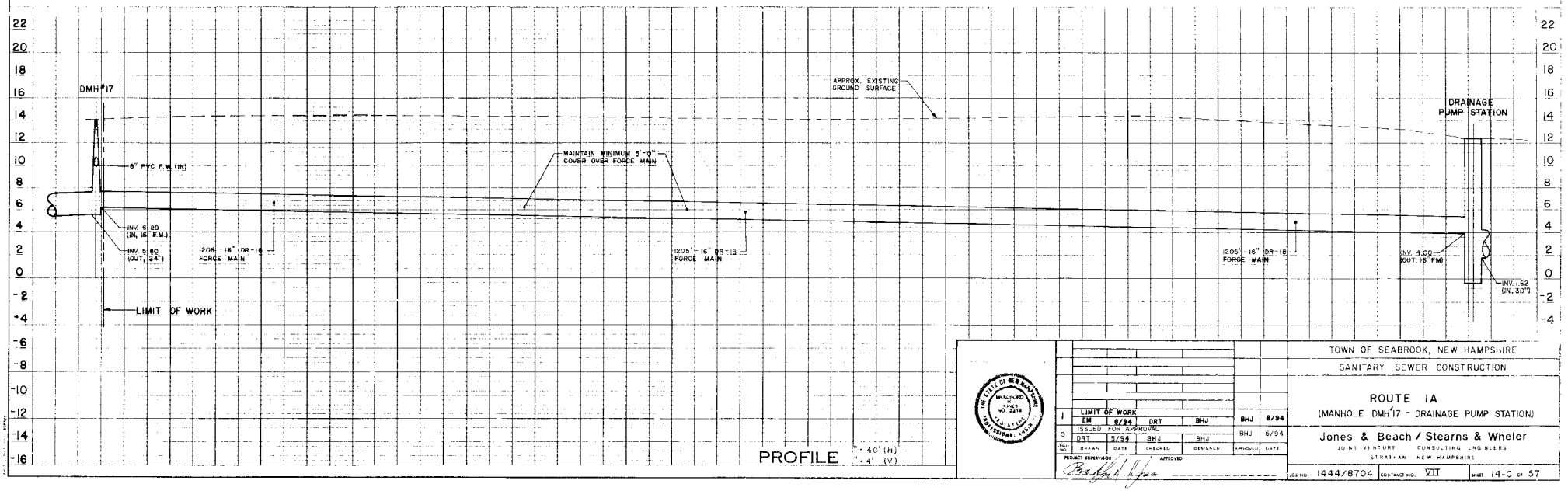
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 14B OF 57

THE STATE OF NEW HAMPSHIRE JOHN A. HIGGINS No. 7645 REGISTERED PROFESSIONAL ENGINEER

©H SULLIVAN, INC. 506387

PLAN 1" = 40'


DMH #17
APPROX. EXISTING GROUND SURFACE
DRAINAGE PUMP STATION
MAINTAIN MINIMUM 5'-0" COVER OVER FORCE MAIN
8" PVC F.M. (IN)
INV. 6.20 (IN, 16" F.M.)
INV. 5.60 (OUT, 24")
1206'-16" DR-18 FORCE MAIN
1205'-16" DR-18 FORCE MAIN
1205'-16" DR-18 FORCE MAIN
INV. 4.00 (OUT, 16" FM)
INV. 1.62 (IN, 30")
LIMIT OF WORK

PROFILE 1" = 40' (H) 1" = 4' (V)

1	LIMIT OF WORK	EM	8/94	DRT	BHJ	BHJ 8/94
0	ISSUED FOR APPROVAL	DRT	5/94	BHJ	BHJ	BHJ 5/94
		DRAWN	DATE	CHECKED	DESIGNED	APPROVED DATE

PROJECT SURVEYOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 1A

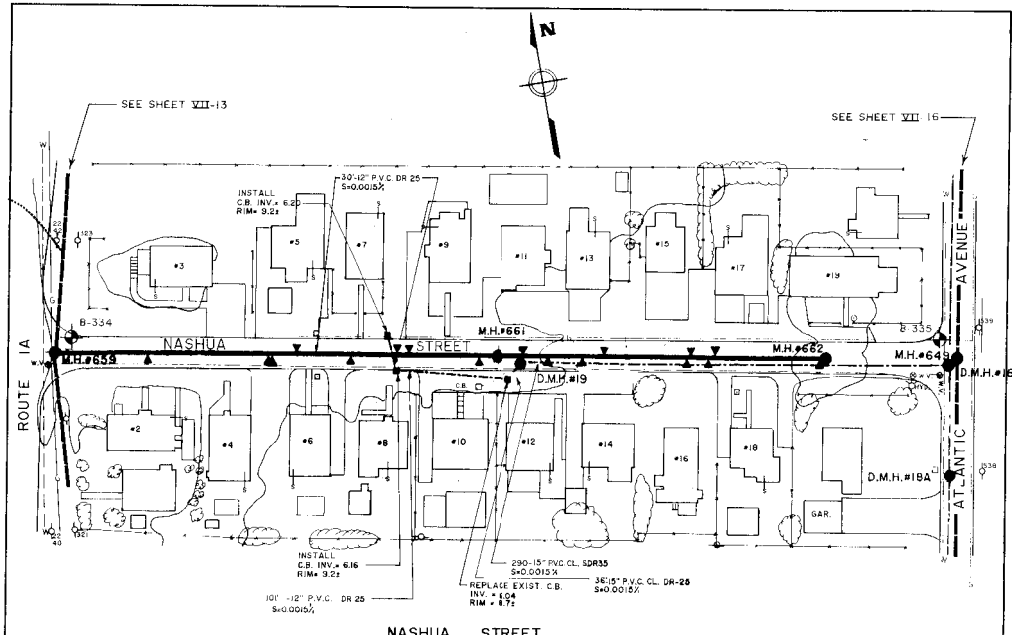
(MANHOLE DMH #17 - DRAINAGE PUMP STATION)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

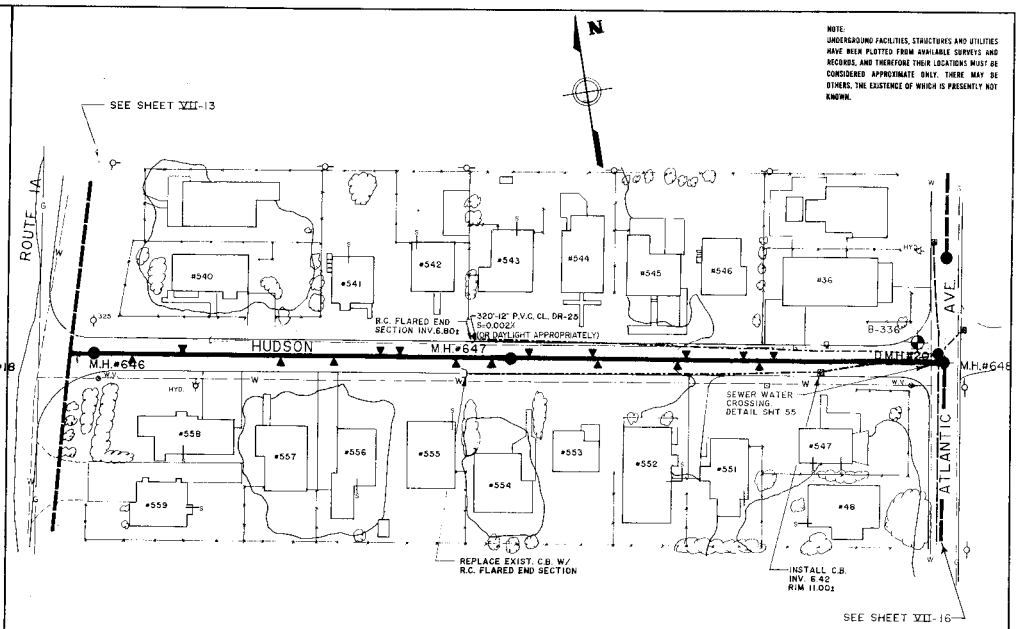
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 14-C of 57



NASHUA STREET

TBM 116 NAIL IN LIGHT POLE #332/41
ON S.E. CORNER OF INTERSECTION
OF RTE. 1A AND NASHUA ST. EL. 11.56



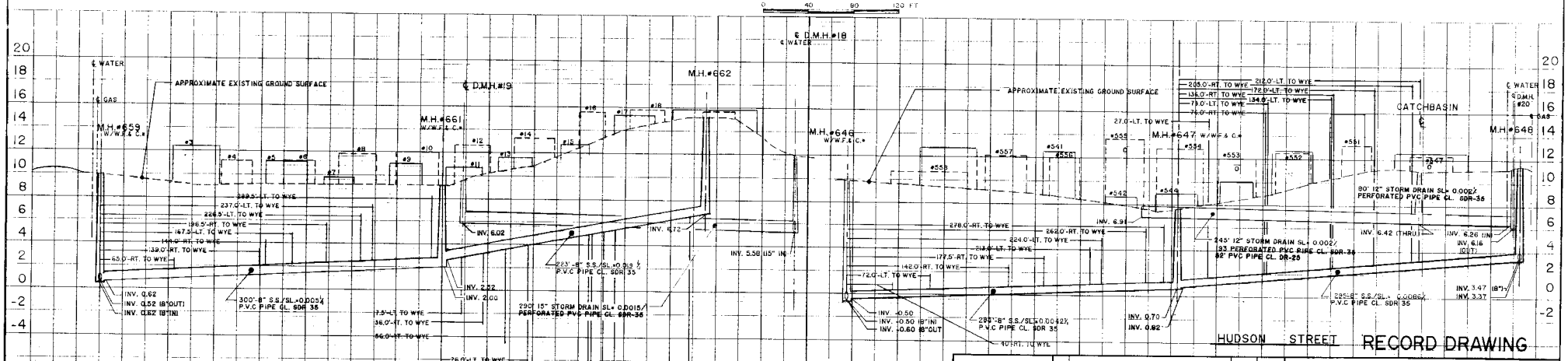
HUDSON STREET

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'

0 40 80 120 FT



NASHUA STREET

HUDSON STREET

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

4	RECORD DRAWING	KJL	11/95	WW	BHJ	11/95
3	REVISE DRAINAGE (PERFORATED PIPE)	DRT	5/94	BHJ	BHJ	5/94
2	REVISED DRAINAGE	EM	10/93	JEC	RBJ	10/93
1	REVISED DRAINAGE	RDK	9/93	RBJ	RBJ	9/93
0	ISSUED FOR APPROVAL	JDB	4/21	JAH	SB	JAH 4/21
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

NASHUA ST. & HUDSON ST.

(MANHOLE NO. 659-662)-(MANHOLE NO. 646-648)

ID.M.H. NO. #19)-(D.M.H. NO. #18)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 15 OF 57

TBM 125 NAIL IN LIGHT #31/73 ON N.E. CORNER OF HOOKSETT ST. & PORTSMOUTH AVE. EL. 11.78

TBM 124 NAIL IN LIGHT POLE #68/921 ON N.E. CORNER OF ATLANTIC AVE. & MANCHESTER ST. (IN FRONT OF HOUSE #15) EL. 12.49

TBM 123 NAIL IN UTILITY POLE #49/540 ON EAST SIDE OF ATLANTIC AVE. APPROX. .05 MI. NORTH OF NASHUA ST. EL. 12.91

TBM 122 NAIL IN UTILITY POLE #46/537 EAST SIDE OF ATLANTIC AVE. ON N.E. CORNER OF TYNGSBORO ST. AND ATLANTIC AVE. (IN FRONT OF HOUSE #75) EL. 13.18

NOTE:
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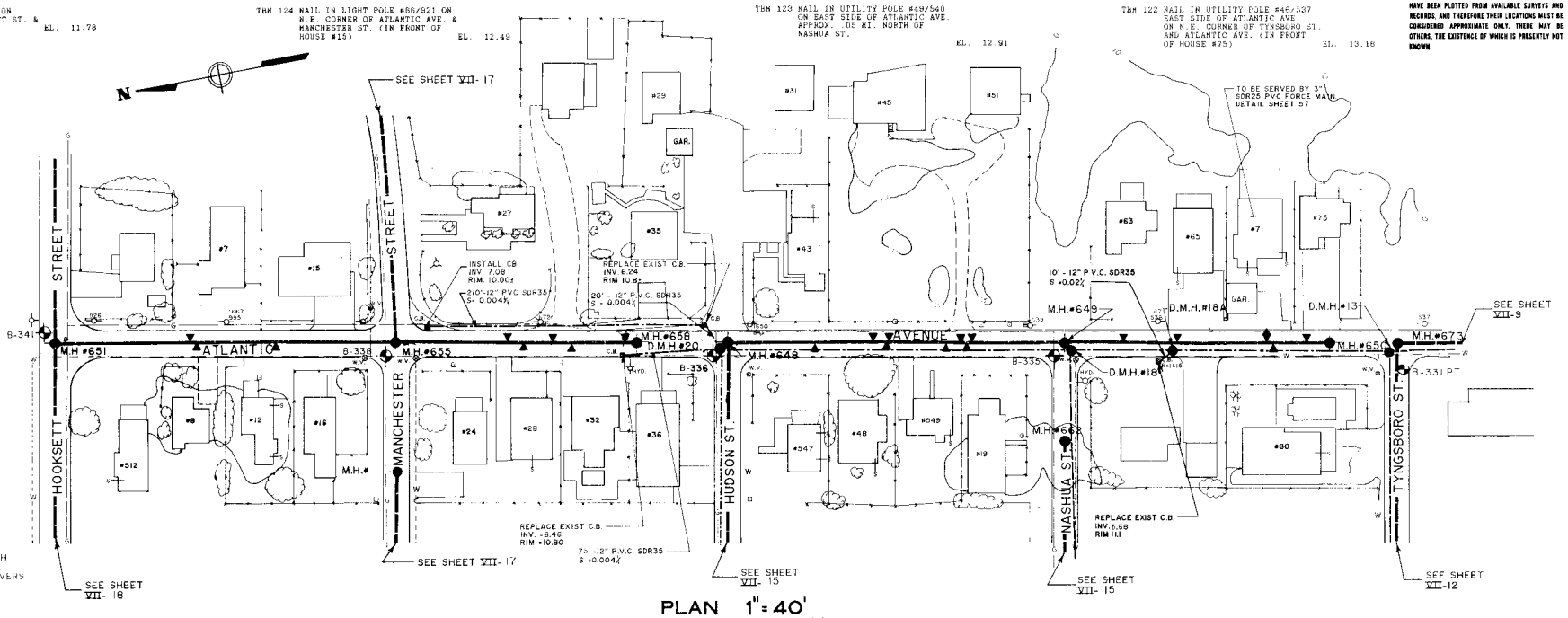
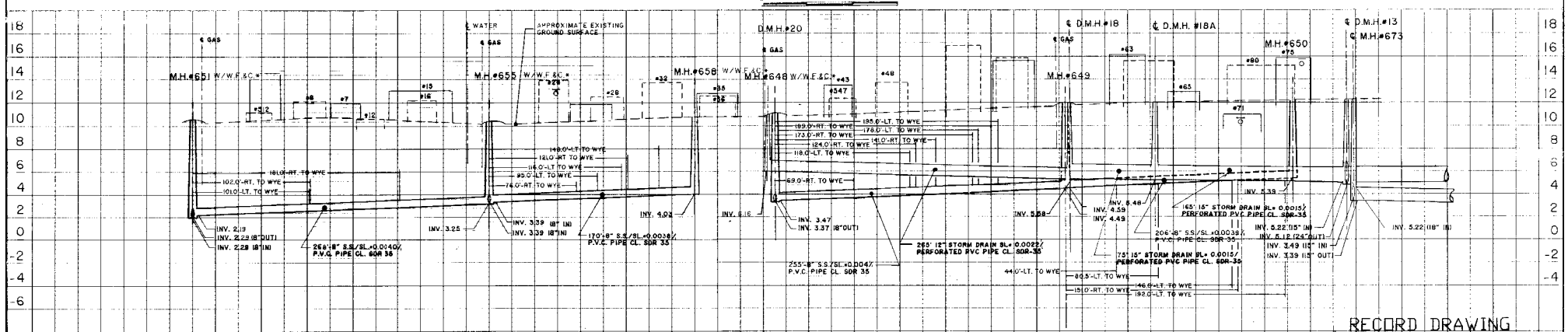


* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING				BHJ	11/95
2	AJL	11/95	WM		BHJ	5/94
	REVISE DRAINAGE (PERFORATED PIPE)					
1	DRT	5/94	BHJ	BHJ	RBJ	9/93
	REVISED DRAINAGE					
0	RDK	9/93	RBJ	RBJ	JAH	1/91
	ISSUED FOR APPROVAL					
	SB/JOE	12/90	JAH	SB		

PROJECT SUPERVISOR — APPROVED: John A Higgins

THE STATE OF NEW HAMPSHIRE — JOHN A. HIGGINS No. 7546 — REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

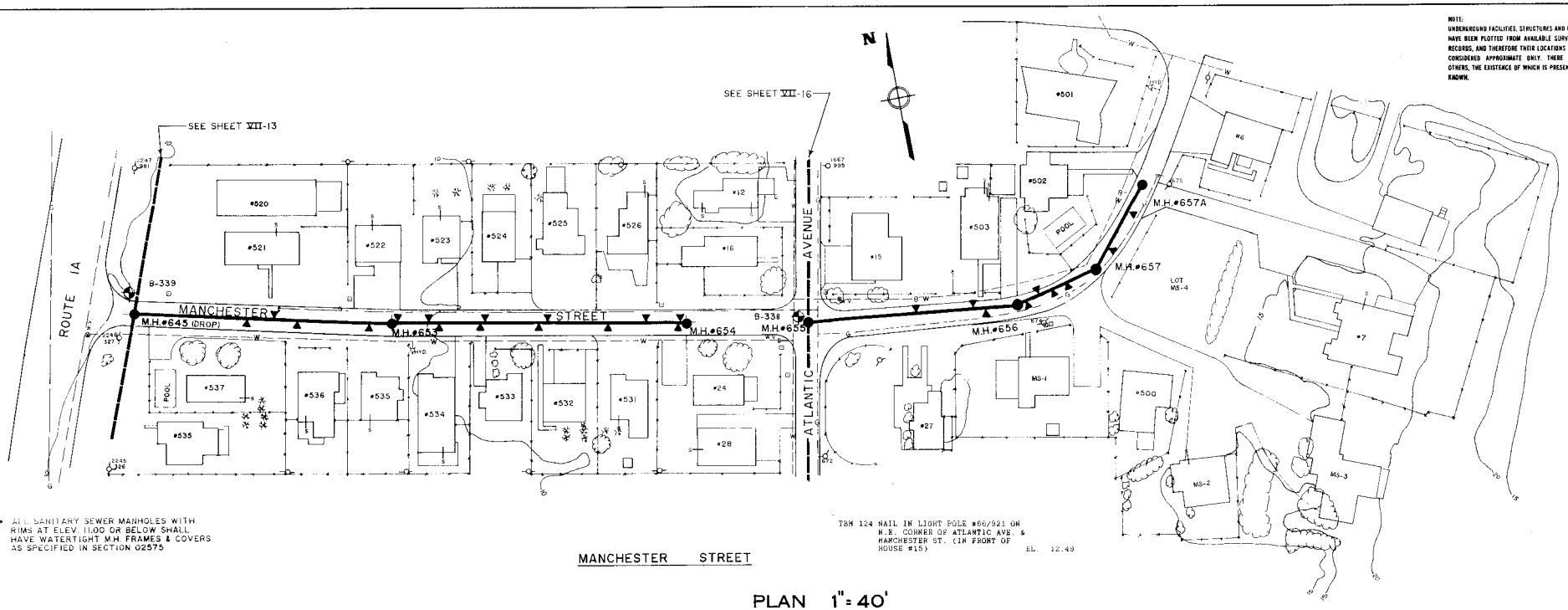
ATLANTIC AVENUE

(MANHOLE NO. 651-658)-(MANHOLE NO. 648-650)
(D.M.H. NO. 20)-(D.M.H. NO. 12)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 16 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

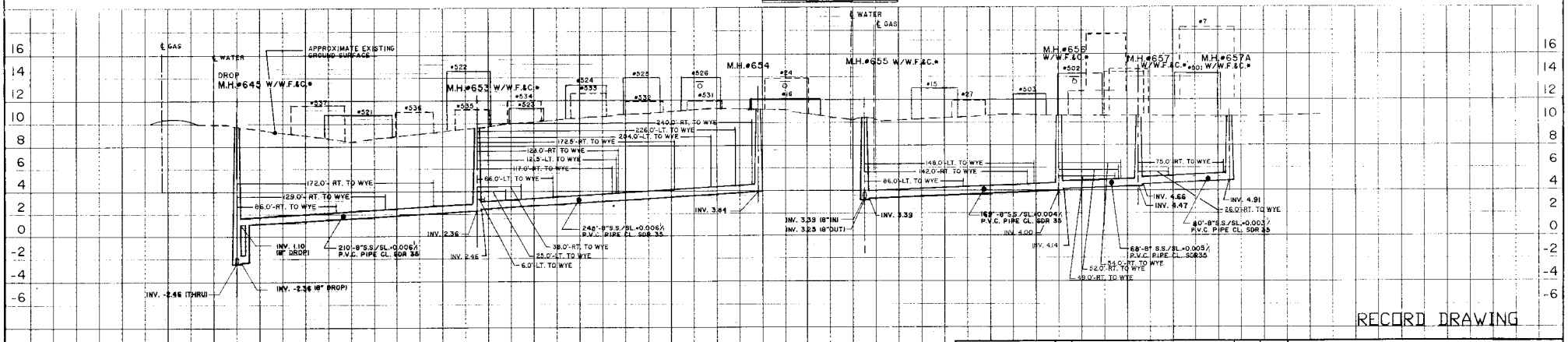


* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

TBM 124 NAIL IN LIGHT POLE #66/921 ON N.E. CORNER OF ATLANTIC AVE. & MANCHESTER ST. (IN FRONT OF HOUSE #15) EL. 12.48

MANCHESTER STREET

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
					BHJ	11/95
1	KJL	11/95	BHJ			
	ISSUED FOR APPROVAL					
0	JCB	4/91	JAH		JAH	4/91

PROJECT SUPERVISOR _____ APPROVED: John A. Higgins

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

MANCHESTER STREET

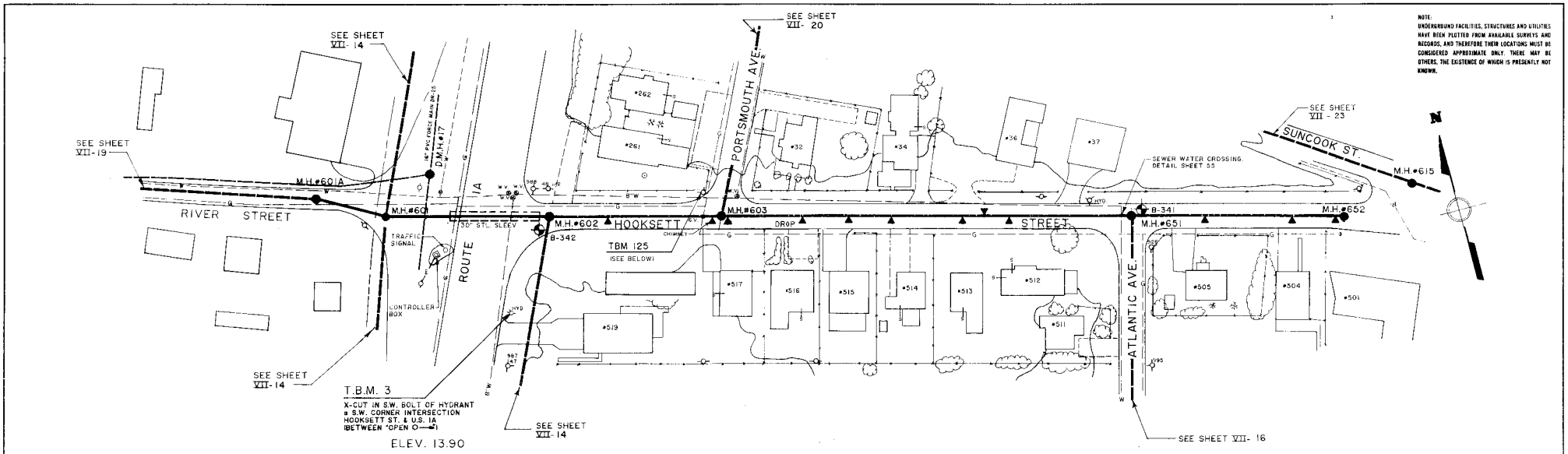
(MANHOLE NO. 645-654)-(MANHOLE NO. 655-657)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 17 OF 57



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

HOOKSETT STREET

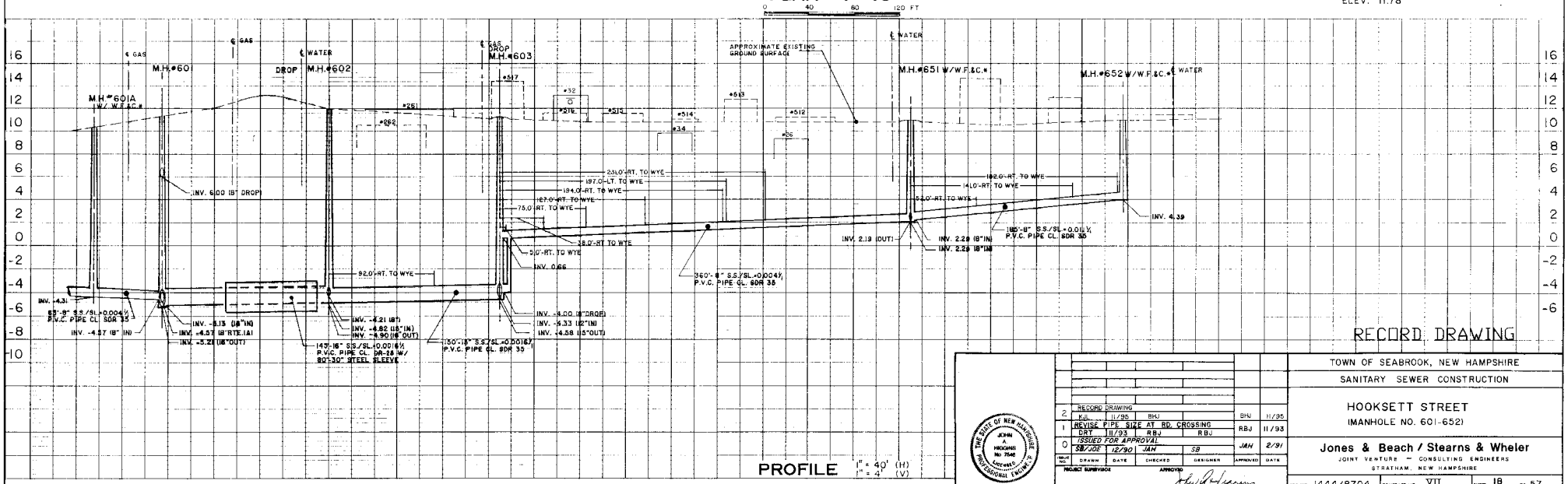
TBM 125

SIXTY-PENNY NAIL ON SE FACE OF LIGHT POLE (# 31/773) ON N.W. CORNER OF PORTSMOUTH AVE & HOOKSETT ST.

ELEV. 11.78

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	KJS	11/95	BHJ		BHJ	11/95
1	REVISE PIPE SIZE AT RD. CROSSING	DRT	11/93	RBJ	RBJ	RBJ	11/93
0	ISSUED FOR APPROVAL	SB/JOE	12/90	JAH	SB	JAH	2/91

PROJECT SUPERVISOR APPROVED

THE STATE OF NEW HAMPSHIRE JOHN A. HIGGINS No. 7540 REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

HOOKSETT STREET

(MANHOLE NO. 601-652)

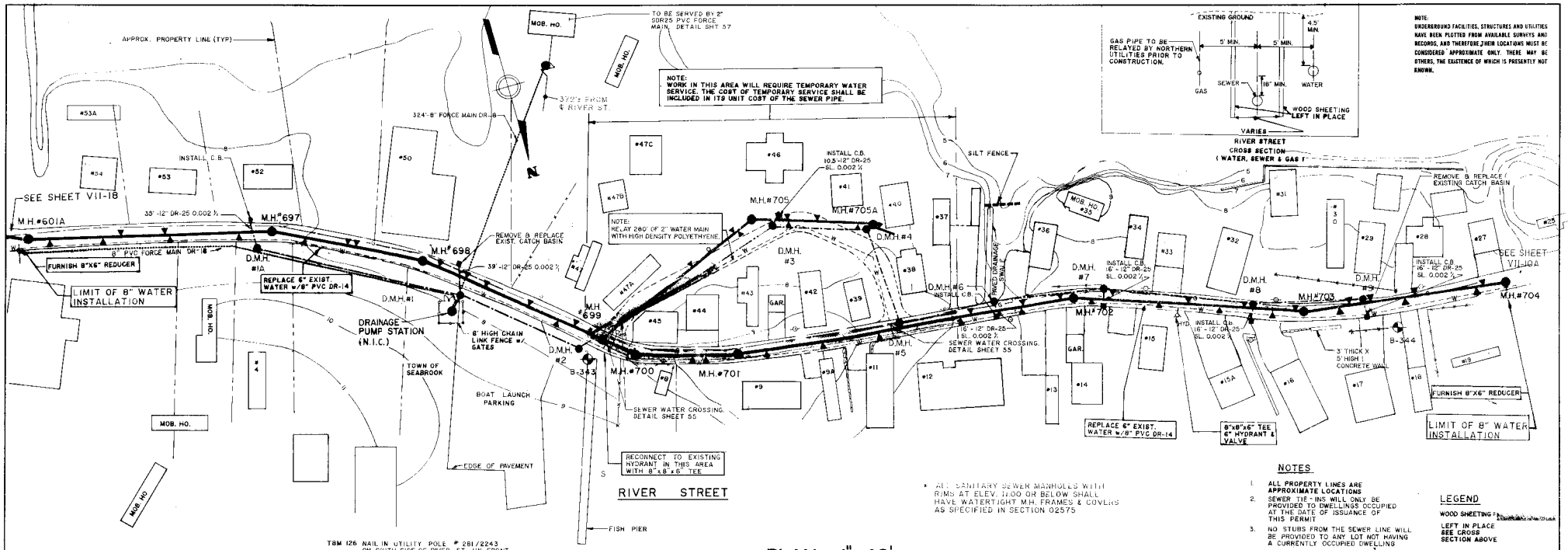
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 18 OF 57

H.K. SULLIVAN INC. 59387


APPROX. PROPERTY LINE (TYP)
MOB. HO.
TO BE SERVED BY 2" SDR25 PVC FORCE MAIN, DETAIL SHT 57
372'± FROM ℄ RIVER ST.
NOTE: WORK IN THIS AREA WILL REQUIRE TEMPORARY WATER SERVICE. THE COST OF TEMPORARY SERVICE SHALL BE INCLUDED IN ITS UNIT COST OF THE SEWER PIPE.
324'-8" FORCE MAIN DR-18
#53A
#54
#53
#52
#50
#47C
#46
#47B
#41
#40
#37
#36
#34
#33
#32
#31
#30
#29
#28
#27
#26
#25
INSTALL C.B. 10.5'-12" DR-25 SL. 0.002 ½
SILT FENCE
M.H.#705
M.H.#705A
NOTE: RELAY 280' OF 2" WATER MAIN WITH HIGH DENSITY POLYETHYENE
SEE SHEET VII-18
M.H.#601A
M.H.#697
35'-12" DR-25 0.002 ½
8" PVC FORCE MAIN DR-18
FURNISH 8"X6" REDUCER
LIMIT OF 8" WATER INSTALLATION
D.M.H. #1A
REPLACE 6" EXIST. WATER w/8" PVC DR-14
M.H.#698
39'-12" DR-25 0.002 ½
REMOVE & REPLACE EXIST. CATCH BASIN
D.M.H. #4
D.M.H. #3
D.M.H. #6
INSTALL C.B.
PAVED DRAINAGE SWALE
D.M.H. #7
D.M.H. #8
D.M.H. #9
INSTALL C.B. 16'-12" DR-25 SL. 0.002 ½
M.H.#703
M.H.#704
REMOVE & REPLACE EXISTING CATCH BASIN
SEE SHEET VII-19A
#47A
#45
#44
#43
#42
#39
#38
#15
#15A
#16
#17
#18
#19
GAR.
D.M.H. #1
D.M.H. #2
D.M.H. #5
M.H.#699
M.H.#700
M.H.#701
M.H.#702
B-343
B-344
16'-12" DR-25 SL. 0.002 ½ SEWER WATER CROSSING. DETAIL SHEET 55
3' THICK X 5' HIGH CONCRETE WALL
DRAINAGE PUMP STATION (N.I.C.)
8' HIGH CHAIN LINK FENCE w/ GATES
TOWN OF SEABROOK
OH SDR
#4
#8
#9A
#11
#12
#13
#14
BOAT LAUNCH PARKING
SEWER WATER CROSSING. DETAIL SHEET 55
REPLACE 6" EXIST. WATER w/8" PVC DR-14
8"x8"x6" TEE & 6" HYDRANT & VALVE
FURNISH 8"X6" REDUCER
LIMIT OF 8" WATER INSTALLATION
RECONNECT TO EXISTING HYDRANT IN THIS AREA WITH 8"x8"x6" TEE
EDGE OF PAVEMENT
RIVER STREET
FISH PIER
MOB. HO. #35
GAS PIPE TO BE RELAYED BY NORTHERN UTILITIES PRIOR TO CONSTRUCTION.
EXISTING GROUND
4.5' MIN.
5' MIN.
GAS
SEWER
18" MIN.
WATER
WOOD SHEETING LEFT IN PLACE
VARIES
RIVER STREET CROSS SECTION (WATER, SEWER & GAS)
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
T&M 126 NAIL IN UTILITY POLE # 281/2243 ON SOUTH SIDE OF RIVER ST. (IN FRONT OF HOUSE # 50, CAPT. DON'S LOBSTER)
PLAN 1" = 40'
0 40 80 120 FT
* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575
NOTES
1. ALL PROPERTY LINES ARE APPROXIMATE LOCATIONS
2. SEWER TIE - INS WILL ONLY BE PROVIDED TO DWELLINGS OCCUPIED AT THE DATE OF ISSUANCE OF THIS PERMIT
3. NO STUBS FROM THE SEWER LINE WILL BE PROVIDED TO ANY LOT NOT HAVING A CURRENTLY OCCUPIED DWELLING
LEGEND
WOOD SHEETING = LEFT IN PLACE SEE CROSS SECTION ABOVE
= 4" F.M. HOUSE CONNECTION
M.H.#601A W/W.F.&C.*
M.H. 697 W/W.F.&C.
M.H. 698 W/W.F.&C.
M.H.#699 W/W.F.&C.*
M.H.#700 W/W.F.&C.*
M.H.#701 W/W.F.&C.*
M.H.#702 W/W.F.&C.*
M.H.#703 W/W.F.&C.*
M.H.#704 W/W.F.&C.*
M.H. 705 W/W.F.&C.
M.H. 705A W/W.F.&C.
INLET M.H.
MOB. HO.
APPROX. EXISTING GROUND SURFACE
PROPOSED FINISH GRADE
℄ WATER
℄ GAS
PROPOSED 8" CL. 200 PVC WATER LINE DR-14
8" GLASS 200 PVC PROPOSED WATER LINE DR-14
18" MIN. VERT. SEPERATION
190'-12" PVC/SL=0.002' DR 25 STORM DRAIN
85'-12" PVC/SL=0.002' DR-25 STORM DRAIN
98'-12" PVC/SL=0.002' DR 25 STORM DRAIN
55'-12" PVC/SL=0.002' DR 25 STORM DRAIN
210'-8" SS/SL=0.010' PVC PIPE CL. SDR 35
134'-8" SS/SL=0.010' PVC PIPE CL. SDR 35
62'-8" S.S./SL=0.004' P.V.C. PIPE CL. SDR 35
35'-8" S.S./SL=0.004' P.V.C. PIPE CL. SDR 35
89'-8" S.S./SL=0.004' P.V.C. PIPE CL. SDR 35
299'-8" S.S./SL=0.004' P.V.C. PIPE CL. SDR 35
175'-8" S.S./SL=0.004' P.V.C. PIPE CL. SDR 35
202'-8" S.S./SL=0.004' P.V.C. PIPE CL. SDR 35
SEE PROFILE BELOW
PROPOSED 8" CL. 200 PVC WATER LINE DR14
MAINTAIN 4.5' COVER OVER FORCE MAIN BEYOND PUMP STATION
8" PVC F.M. DR-18 (NOT IN CONTRACT)
15'-12" PVC SL=0.017% DR-25 STORM DRAIN
210'-12" PVC/SL=0.002' DR 25 STORM DRAIN
172'-8" SS/SL=0.004' PVC PIPE CL SDR35
ROAD PROFILE SHOWING PROPOSED FINISHED GRADE
RECORD DRAWING
PROFILE 1" = 40' (H) 1" = 4' (V)

5	ADDED DRAINAGE & ROAD FILL	BAJ	3/95	WM	BAJ	RBJ 3/95
4	ADDED 24" MH, SHEET 2 & STATION	DT	6/94	BHJ	BAJ	BHJ 6/94
3	REVISE DRAINAGE	DRT	5/94	BHJ	BHJ	BHJ 5/94
2	SHEETING & WATER REPLACEMENT	EM	9/93	JEC	BHJ	BHJ 9/93
1	REVISIONS OF SEWER ELEVATIONS	SBR	6/93	RBJ	SB	RBJ 6/93
0	ISSUED FOR APPROVAL	SB/JOE	12/90	JAH	SB	JAH 2/91
REV. NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

RIVER STREET

(MANHOLE NO. 601-705)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 19 OF 57

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

TBM 127

SET X-CUT ON N.W. BOLT OF FIRE HYDRANT ON EAST SIDE OF PORTSMOUTH AVE. APPROX. 320'± FROM INTERSECTION OF PORTSMOUTH AVE. & HOOKSETT ST

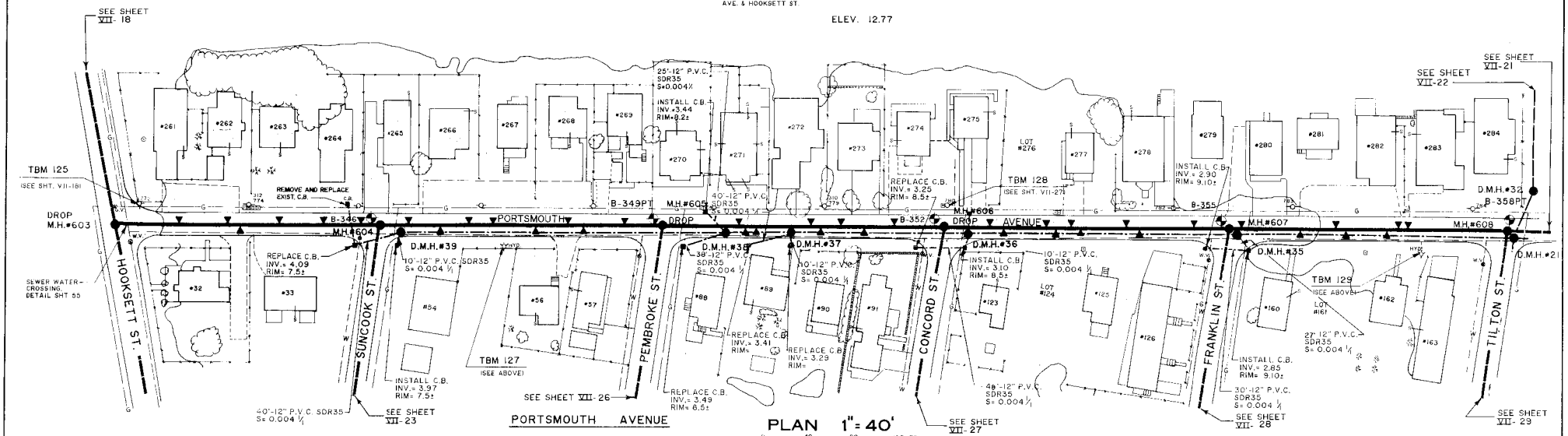
ELEV. 10.91

TBM 129

SET X-CUT ON S.W. BOLT OF FIRE HYDRANT ON EAST SIDE OF PORTSMOUTH AVE. APPROX. 1175'± FROM INTERSECTION OF PORTSMOUTH AVE. & HOOKSETT ST

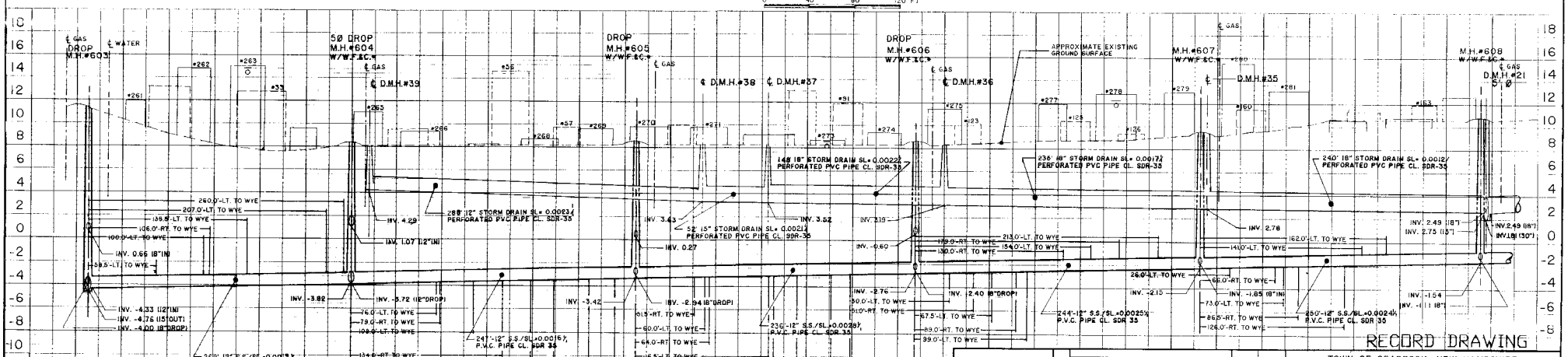
ELEV. 12.77

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PORTSMOUTH AVENUE PLAN 1"= 40'

0 40 80 120 FT


DROP M.H.#603
5Ø DROP M.H.#604 W/W.F.&C.
DROP M.H.#605 W/W.F.&C.
DROP M.H.#606 W/W.F.&C.
M.H.#607 W/W.F.&C.
M.H.#608 W/W.F.&C.
D.M.H.#21 5'Ø
APPROXIMATE EXISTING GROUND SURFACE
148' 18" STORM DRAIN SL= 0.0022 PERFORATED PVC PIPE CL. SDR-35
236' 18" STORM DRAIN SL= 0.0012 PERFORATED PVC PIPE CL. SDR-35
240' 18" STORM DRAIN SL= 0.0012 PERFORATED PVC PIPE CL. SDR-35
288' 12" STORM DRAIN SL= 0.0023 PERFORATED PVC PIPE CL. SDR-35
52' 15" STORM DRAIN SL= 0.0021 PERFORATED PVC PIPE CL. SDR-35
263'-12" S.S./SL=0.0019 P.V.C. PIPE CL. SDR 35
247'-12" S.S./SL=0.0016 P.V.C. PIPE CL. SDR 35
236'-12" S.S./SL=0.0028 P.V.C. PIPE CL. SDR 35
244'-12" S.S./SL=0.0025 P.V.C. PIPE CL. SDR 35
250'-12" S.S./SL=0.0024 P.V.C. PIPE CL. SDR 35

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

4	RECORD DRAWING	KJL 11/95	BHJ		BHJ	11/95
3	REVISED DRAINAGE	SDC 12/94	BHJ	SDC	BHJ	12/94
2	REVISE DRAINAGE (PERFORATED PIPE)	EM 9/93	RBJ	RBJ	RBJ	9/93
1	WM 7/92	RBJ	BAJ		RBJ	7/92
0	ISSUED FOR APPROVAL	SB/JOE 12/90	JAH	SB	JAH	2/91
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR APPROVED

THE STATE OF NEW HAMPSHIRE JOHN A. HUGGINS No. 7546 REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

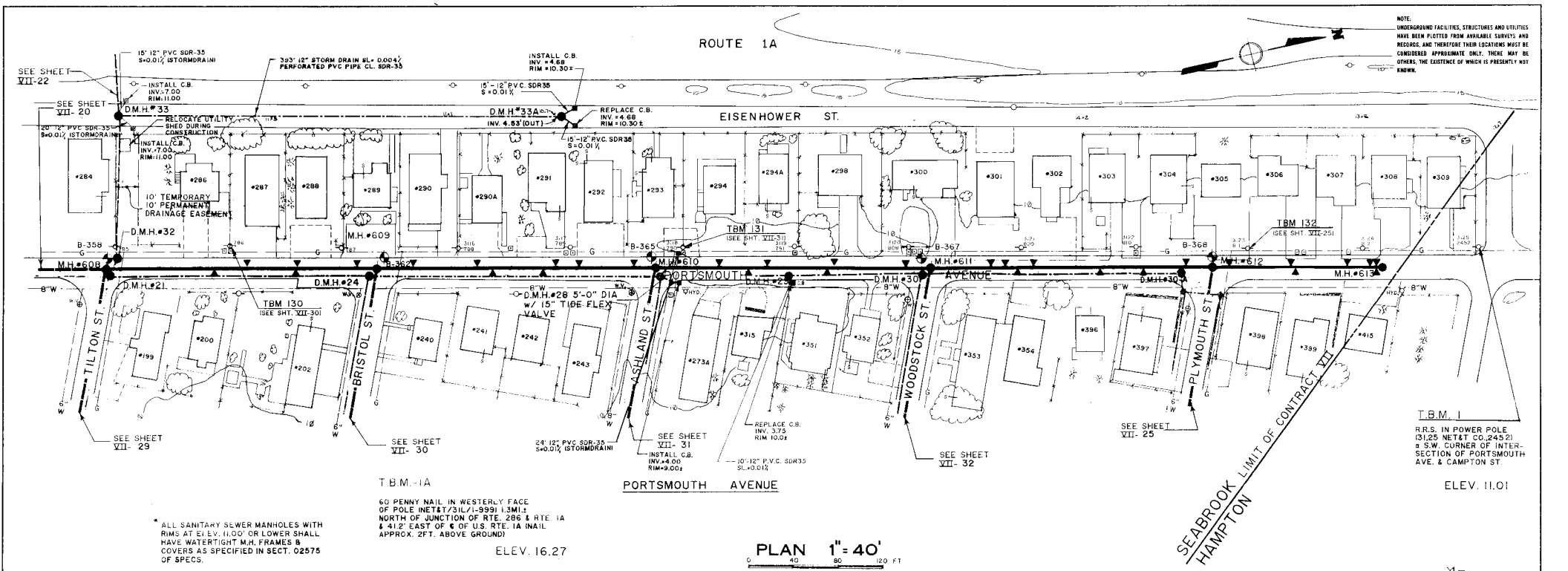
PORTSMOUTH AVENUE

(MANHOLE NO.603)-(MANHOLE NO.608)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 20 OF 57

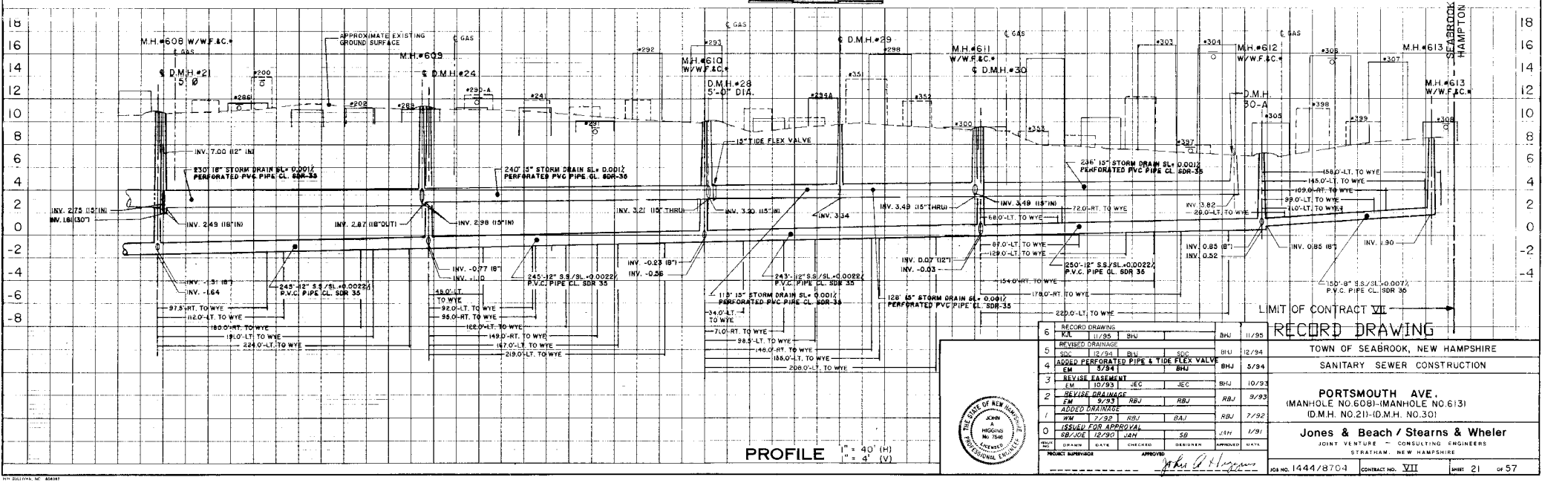


NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00' OR LOWER SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECT. 02575 OF SPECS.

PLAN 1"= 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
6	RECORD DRAWING	KJL	11/95	BHJ		BHJ	11/95
5	REVISED DRAINAGE	SDC	12/94	BHJ	SDC	BHJ	12/94
4	ADDED PERFORATED PIPE & TIDE FLEX VALVE	EM	5/94		BHJ	BHJ	5/94
3	REVISE EASEMENT	EM	10/93	JEC	JEC	BHJ	10/93
2	REVISE DRAINAGE	EM	9/93	RBJ	RBJ	RBJ	9/93
1	ADDED DRAINAGE	WM	7/92	RBJ	BAJ	RBJ	7/92
0	ISSUED FOR APPROVAL	SB/JOE	12/90	JAH	SB	JAH	1/91

PROJECT SUPERVISOR _____ APPROVED John A. Higgins

THE STATE OF NEW HAMPSHIRE JOHN A. HIGGINS No. 7546 LICENSED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

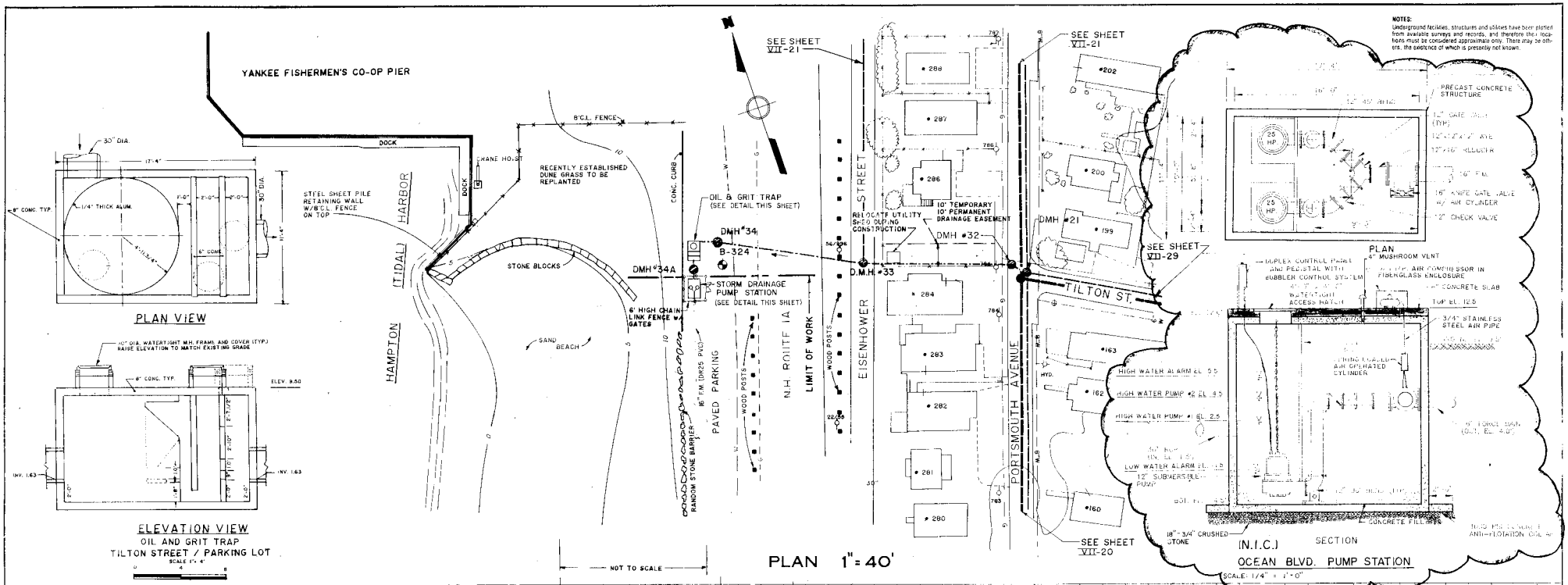
SANITARY SEWER CONSTRUCTION

PORTSMOUTH AVE.
(MANHOLE NO.608)-(MANHOLE NO.613)
(D.M.H. NO.21)-(D.M.H. NO.30)

Jones & Beach / Stearns & Wheler
JOINT VENTURE - CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 21 OF 57

RECORD DRAWING



7	LIMIT OF WORK	EM	8/94	DRT	RBJ	BHJ	8/94
6	ADDED STORM P.S. ELIMINATED (1) VALVE	EM	5/94	BHJ	BHJ	BHJ	5/94
5	ADDED WALL DETAIL	RDK	10/93	RBJ	RDK	RBJ	10/93
4	ADDED SILT FENCE	SOC	8/93	RBJ	LPR	RBJ	8/93
3	ADDED OIL & GRIT TRAP	EM	7/93	BHJ	JEC	BHJ	7/93
2	ADDED CO-OP PIER	MJ	7/93	BAJ		BAJ	7/93
1	ADDED STEEL SLEEVE	WM	9/92	RBJ		RBJ	9/92
0	ISSUED FOR APPROVAL	BAJ	2/81	JOE	JAH	JAH	4/81
	ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

THE STATE OF NEW HAMPSHIRE — JOHN A. HIGGINS No. 7648 — REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

STORMWATER OUTFALL

Jones & Beach / Stearns & Wheler

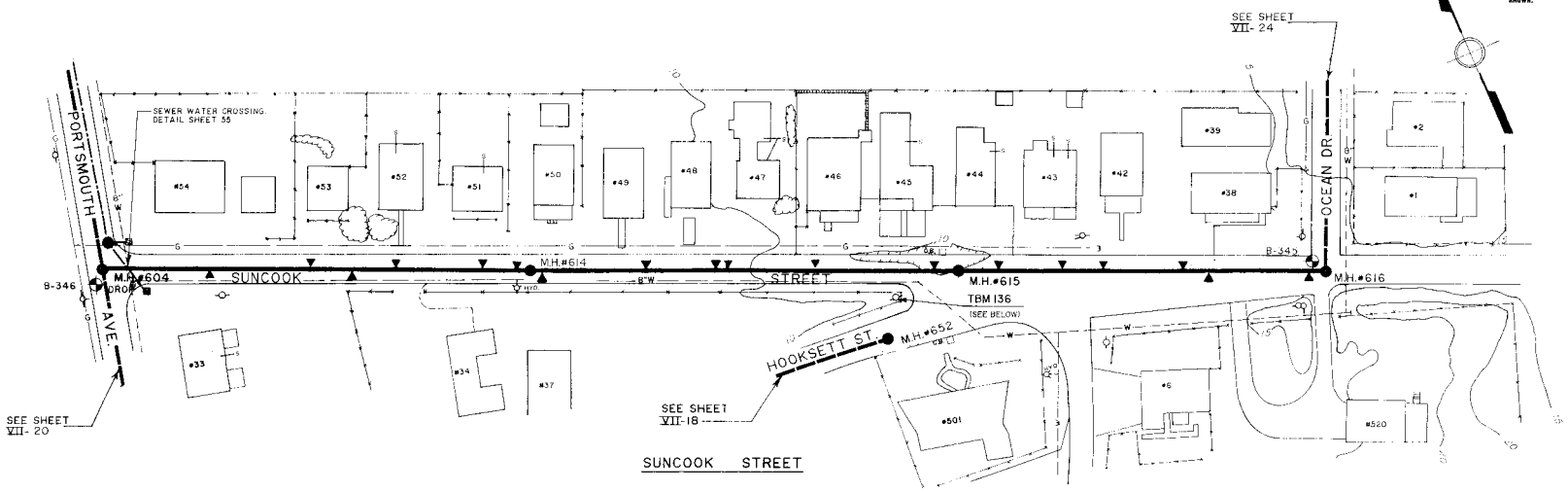
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 22 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

N



SUNCOOK STREET

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

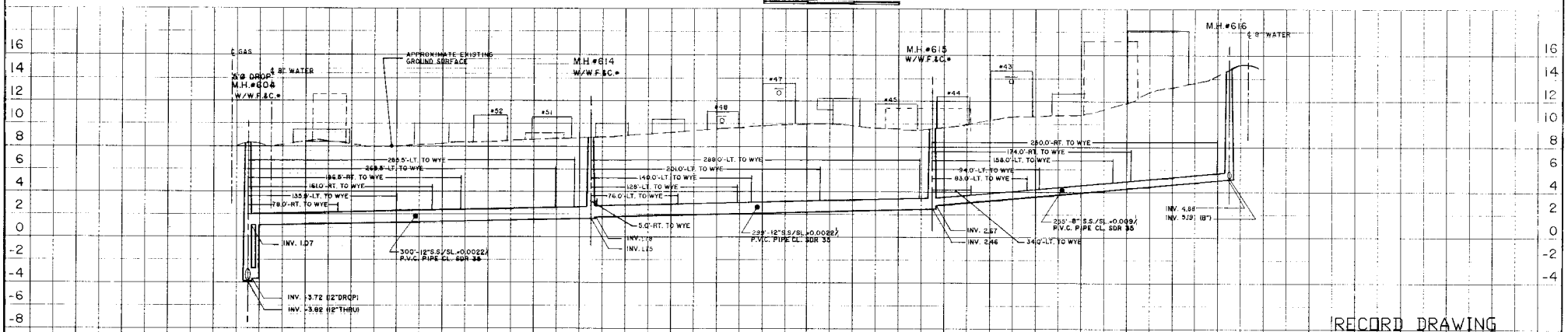
TBM 136

SIXTY-PENNY NAIL ON SOUTH FACE OF LIGHT POLE (# 2 /100) ON CORNER OF SUNCOOK ST. & HOOKSETT ST. (NAIL IS 1' ABOVE GROUND)

ELEV. 12.87

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE — JOHN A HIGGINS No 7546 LICENSED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DATE
1	RECORD DRAWING	KJL	12/98	BNJ	12/98
0	ISSUED FOR APPROVAL	SB/BRJ	12/90	JAH	1/91

DESIGNER: SB

PROJECT SUPERVISOR: _____ APPROVED: John A. Higgins

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

SUNCOOK STREET

(MANHOLE NO. 604)-(MANHOLE NO. 616)

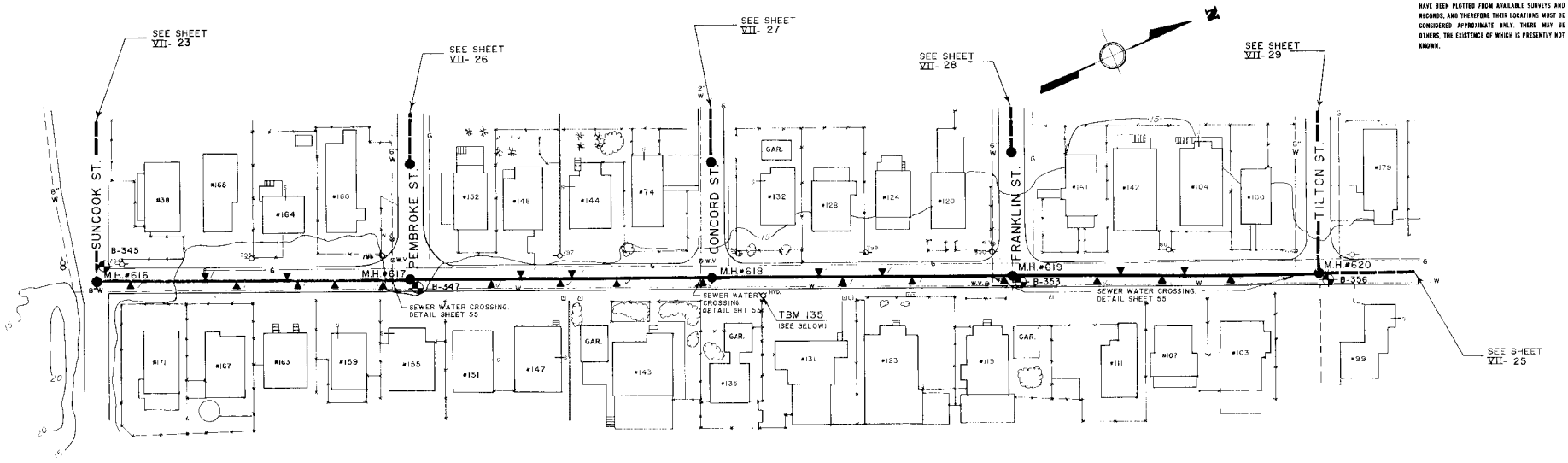
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 23 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



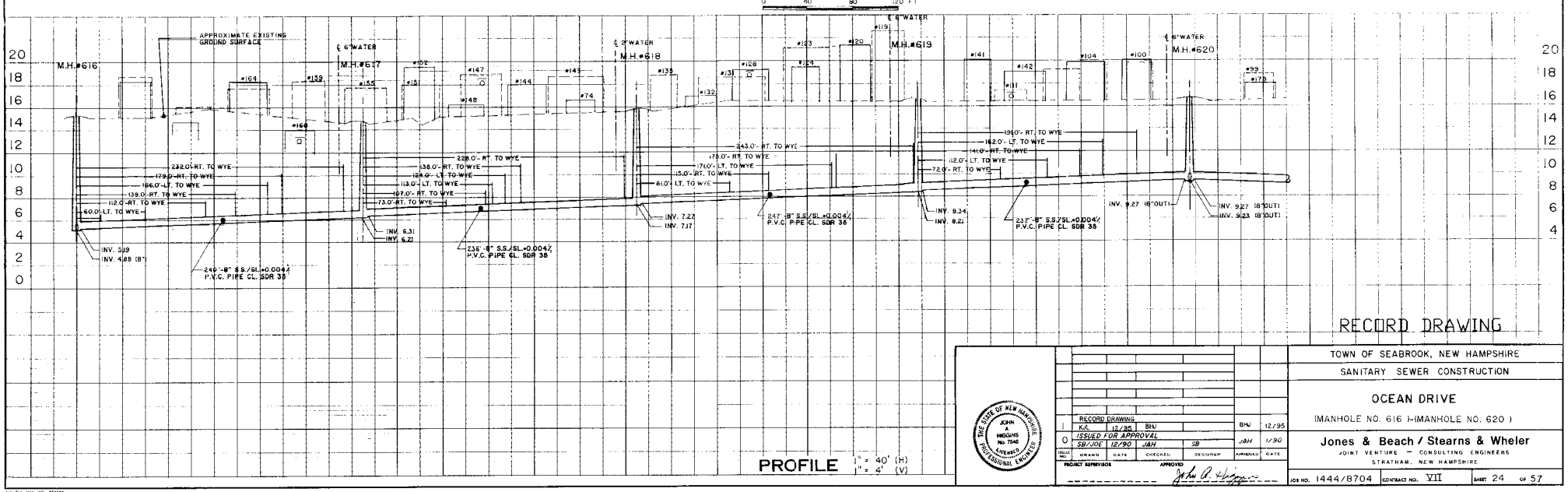
TBM 135

SET X-CUT ON S.W. BOLT OF FIRE HYDRANT ON EAST SIDE OF OCEAN DRIVE IN FRONT OF HOUSE # 135

ELEV. 19.76

OCEAN DRIVE

PLAN 1"= 40'



PROFILE 1"= 40' (H) 1"= 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	RECORD DRAWING	KA	12/95	BHJ		BHJ	12/95
0	ISSUED FOR APPROVAL	SB/JOE	12/90	JAH	SB	JAH	1/90

PROJECT SUPERVISOR

APPROVED John A. Higgins

THE STATE OF NEW HAMPSHIRE JOHN A. HIGGINS No. 7546 REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

OCEAN DRIVE

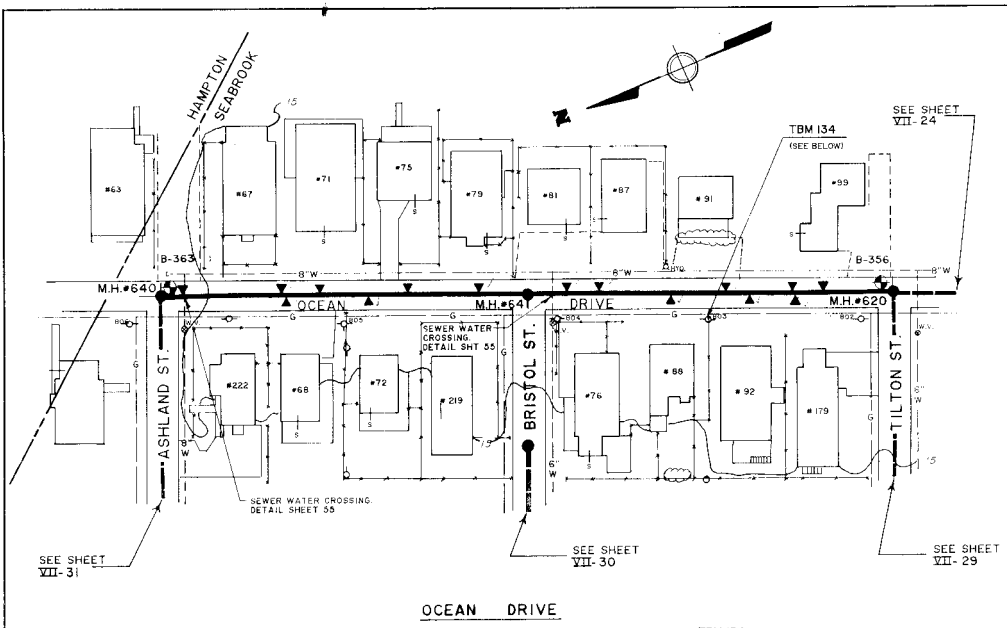
(MANHOLE NO. 616)-(MANHOLE NO. 620)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 24 OF 57

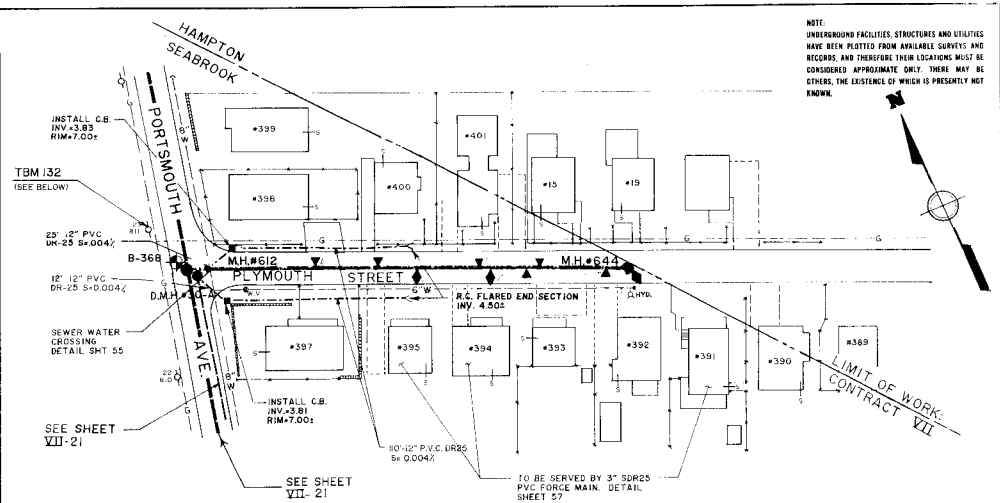


OCEAN DRIVE

TBM 134

SIXTY-PENNY NAIL ON EAST FACE OF UTILITY POLE (# 803) ON WEST SIDE OF OCEAN DRIVE, IN FRONT OF HOUSE # 86 (NAIL 1' ABOVE GROUND)

ELEV. 18.13



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

PLYMOUTH STREET

TBM 132

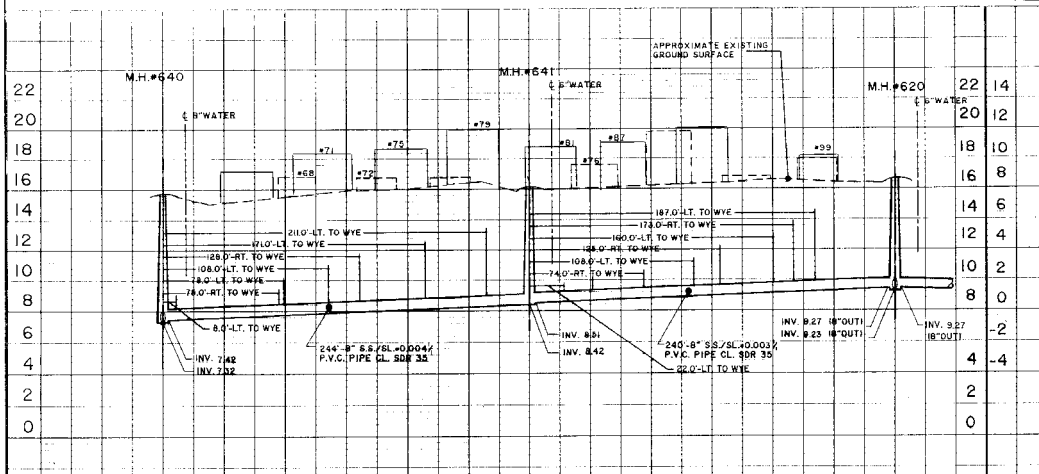
SIXTY-PENNY NAIL ON EAST FACE OF LIGHT POLE (# 23/81) ON N.W. CORNER OF PORTSMOUTH AVE. & PLYMOUTH ST. APPROX. 215'± FROM INTERSECTION OF PORTSMOUTH AVE. & HOOKSETT ST.

ELEV. 8.54

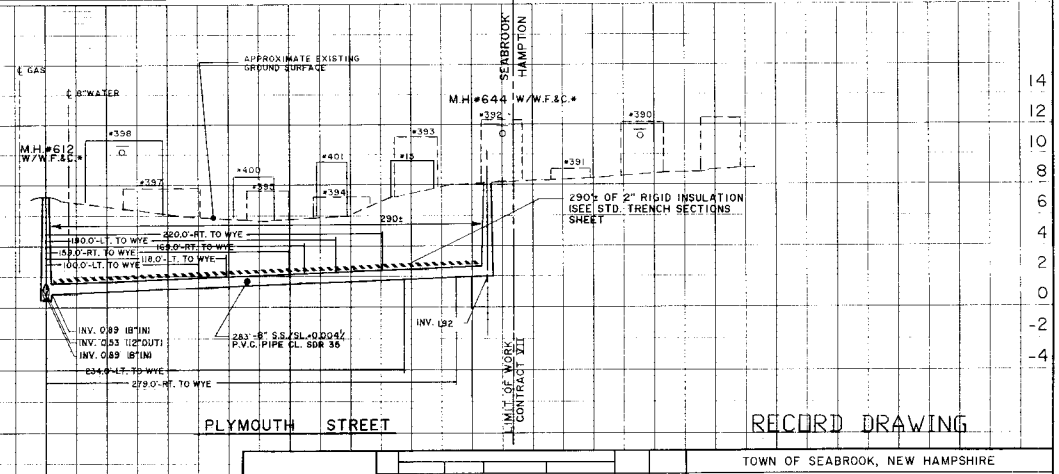
* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'

0 40 80 120 FT



OCEAN DRIVE



PLYMOUTH STREET

PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE
JOHN A. HIGGINS No. 7546 REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	KJL	12/95	BHJ		BHJ	12/95
1	REVISED DRAINAGE	RDK	9/93	RBJ	SB	RBJ	9/93
0	ISSUED FOR APPROVAL	SB/JGE	12/90	JAH	SB	JAH	1/91

PROJECT SUPERVISOR: John A. Higgins

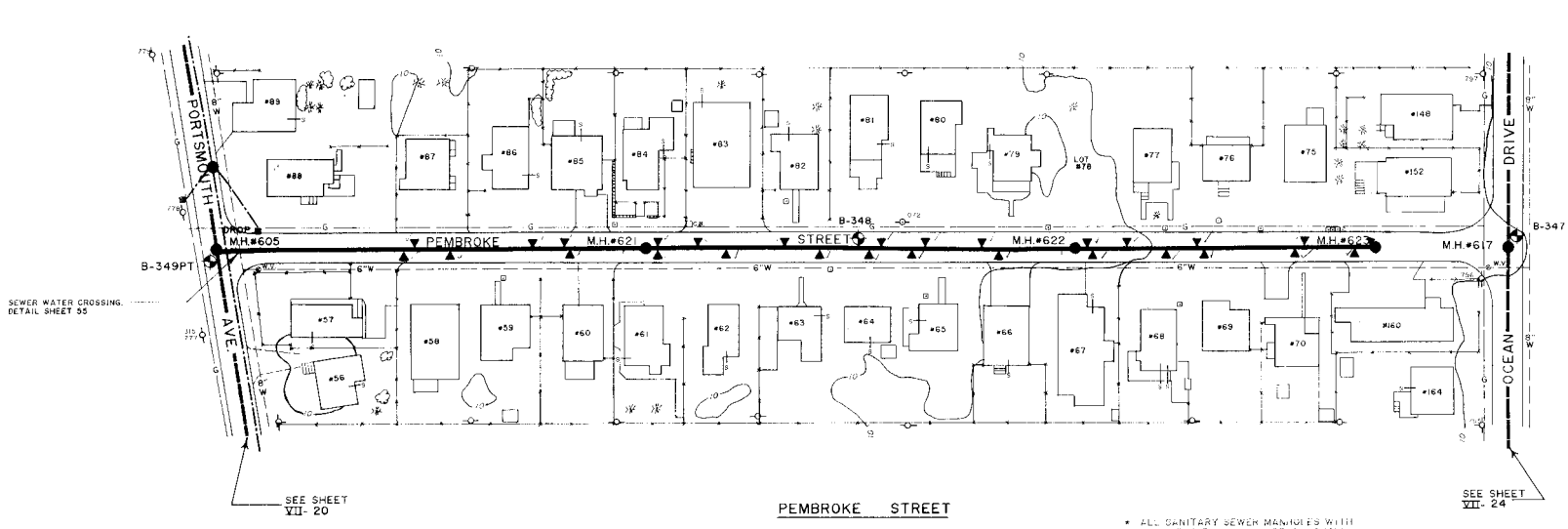
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

OCEAN DR. & PLYMOUTH ST.
(MANHOLE NO. 640-6201-(MANHOLE NO. 612-644)

Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 25 OF 57

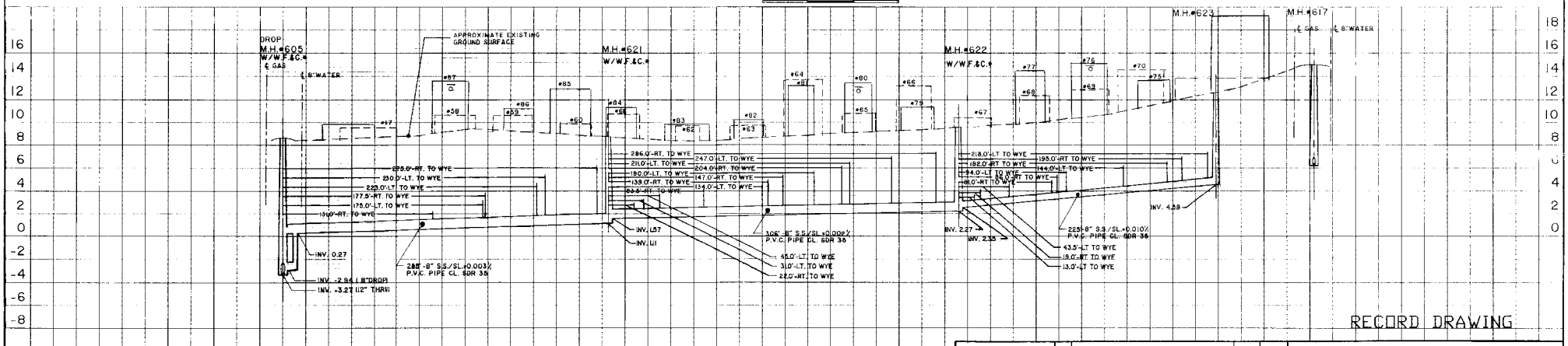
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE — JOHN A. HIGGINS NO. 7546 LICENSED PROFESSIONAL ENGINEER

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
	KAL	12/95	BHJ		BHJ	12/95
1	ISSUED FOR APPROVAL				JAH	1/91
0	SB/BAJ	12/90	JAH	SB		

PROJECT SUPERVISOR _____ APPROVED John A. Higgins

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

PEMBROKE STREET
(MANHOLE NO. 605)-(MANHOLE NO. 623)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

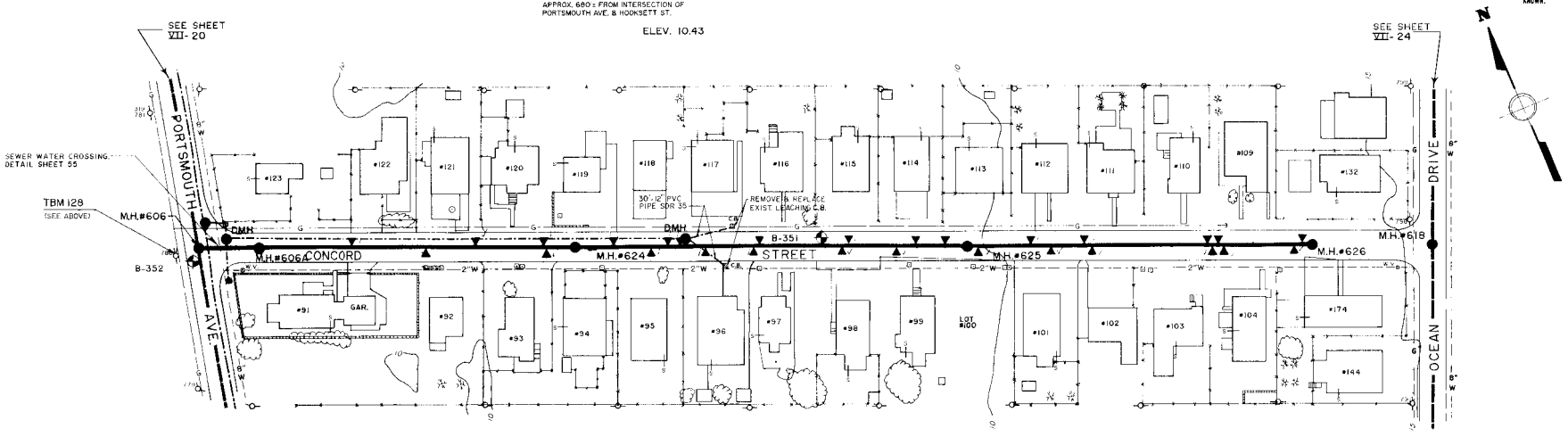
JOB NO. 1444/8704 CONTRACT NO. VII SHEET 26 OF 57

TBM 128

SIXTY-PENNY NAIL EAST FACE OF LIGHT POLE (# 760) ON N.W. CORNER OF PORTSMOUTH AVE. & CONCORD ST. APPROX. 680± FROM INTERSECTION OF PORTSMOUTH AVE. & HOOKSETT ST.

ELEV. 10.43

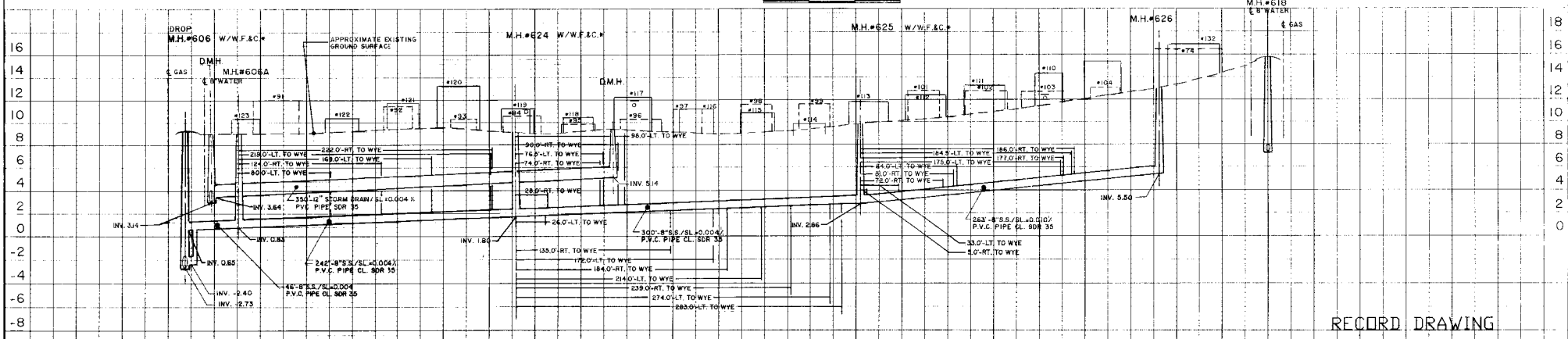
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE JOHN HOGANS No. 7946 REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	KJL	12/95	BHJ		BHJ	12/95
1	GAS & WATER REVISION OCEAN DR	EM	8/93	BHJ	JEC	BHJ	8/93
0	ISSUED FOR APPROVAL	SB/JOE	12/90	JAH	SB	JAH	2/91

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CONCORD STREET

(MANHOLE NO. 606)-(MANHOLE NO. 626)

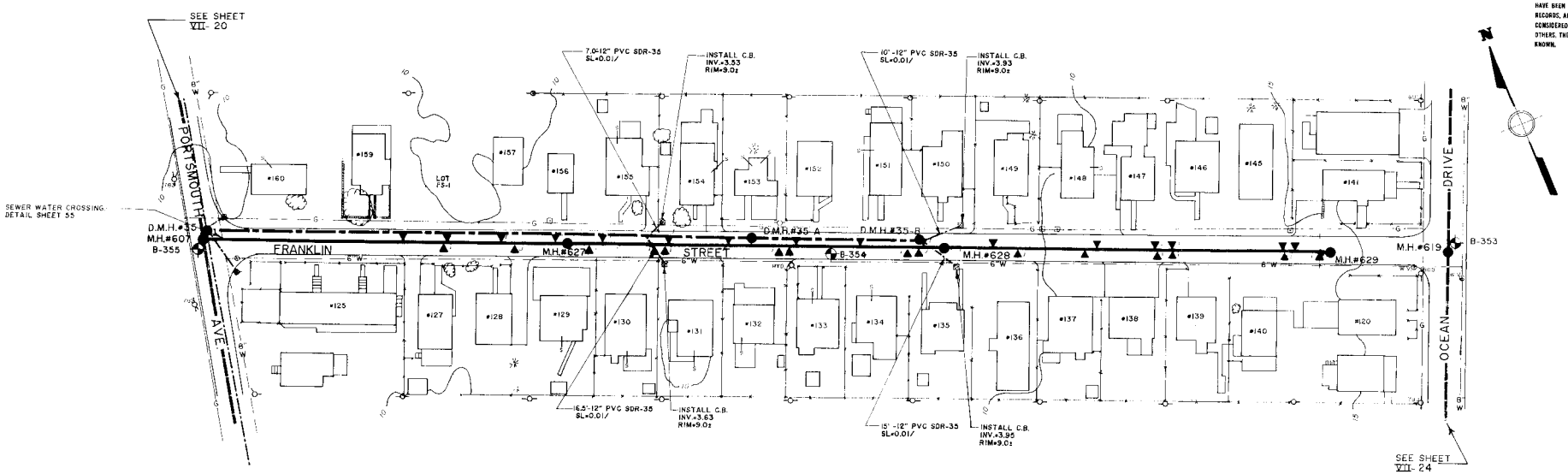
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 27 OF 57

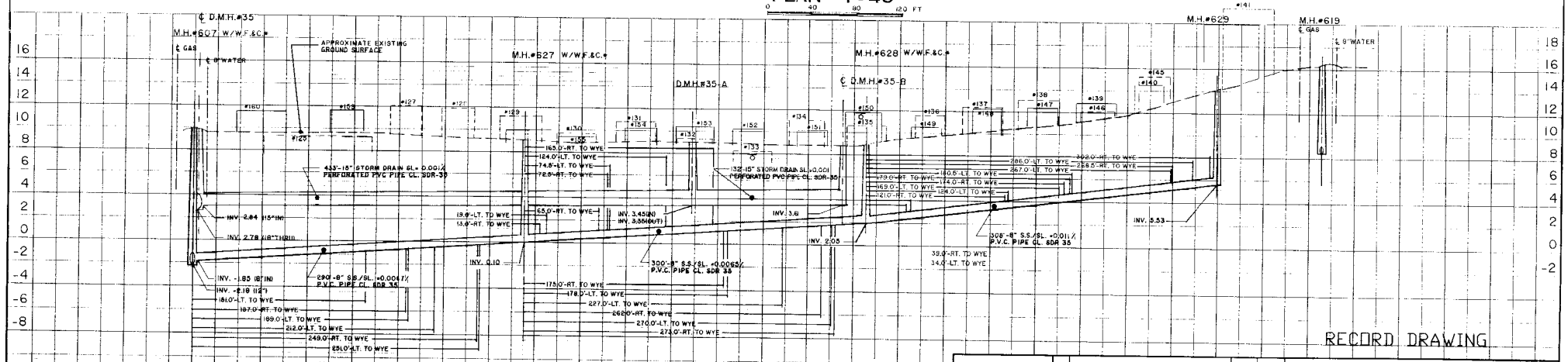
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS. THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



FRANKLIN STREET

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	KJL	12/95	BHJ		BHJ	12/95
1	ADDED DRAINAGE (PERFORATED PIPE)	EM	5/94			BHJ	5/94
0	ISSUED FOR APPROVAL	SB/JDE	12/90	JAH	SB	JAH	1/91

PROJECT SUPERVISOR

THE STATE OF NEW HAMPSHIRE JOHN A. HIGGINS NO. 7946 LICENSED PROFESSIONAL ENGINEER

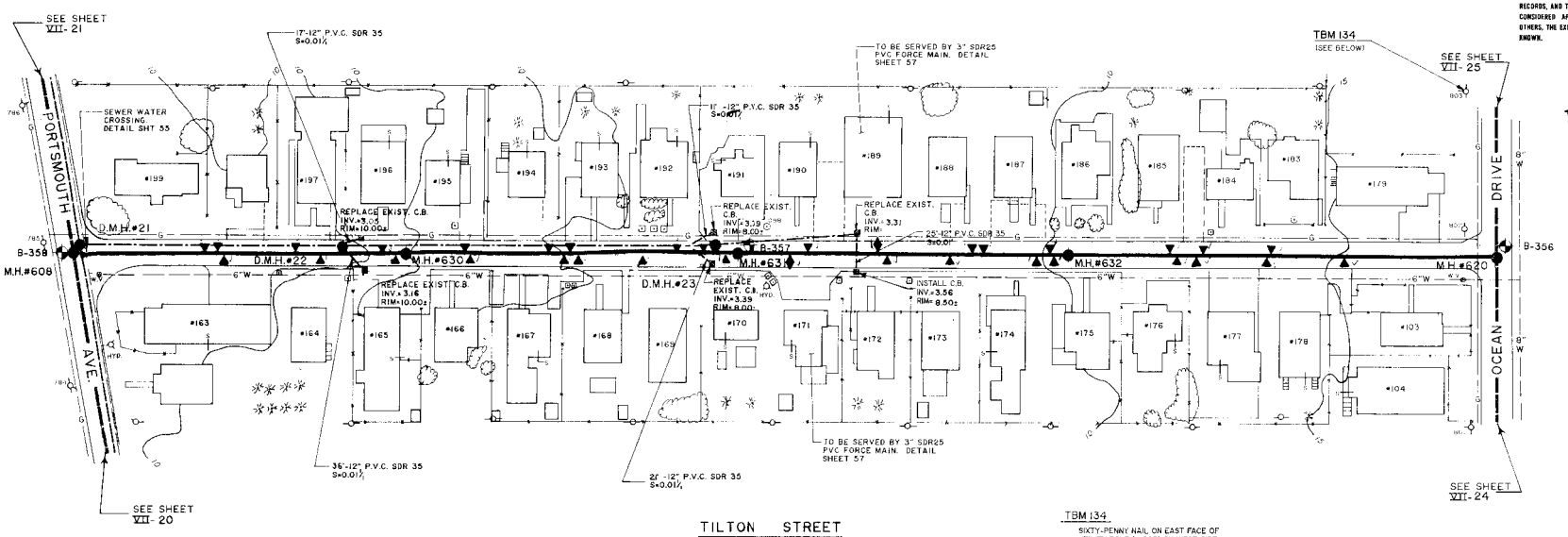
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

FRANKLIN STREET
(MANHOLE NO. 607)-(MANHOLE NO. 629)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 28 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

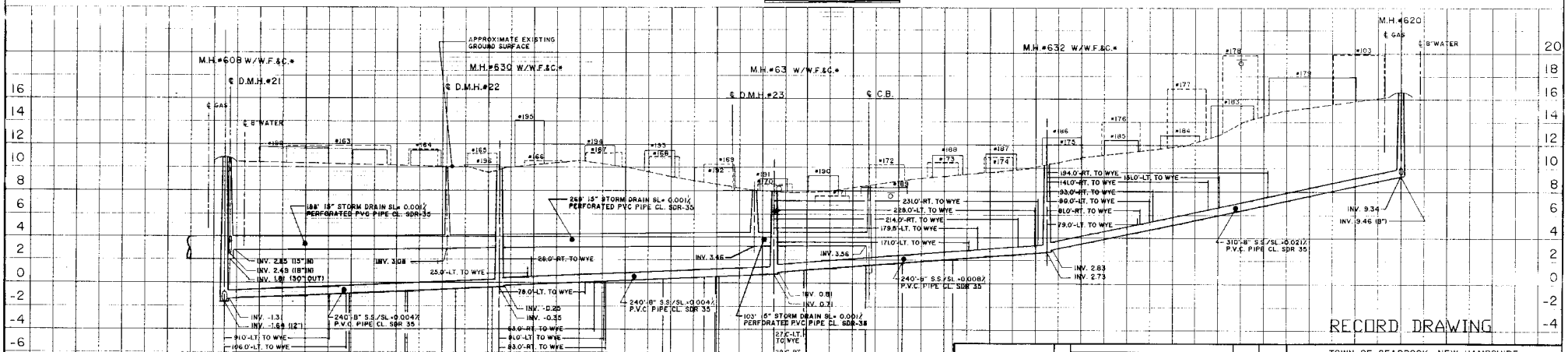


TBM 134
SIXTY-PENNY NAIL ON EAST FACE OF UTILITY POLE (# 603) ON WEST SIDE OF OCEAN DRIVE, IN FRONT OF HOUSE # 88 (NAIL F ABOVE GROUND)
ELEV. 18.13

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	KJL	12/95	BHJ		BHJ	12/95
3	ADDED PERFORATED PIPE EM	5/94	BHJ	BHJ	BHJ	5/94
2	REVISED DRAINAGE RDK	9/93	RBJ	RBJ	RBJ	9/93
1	ADDED DRAINAGE WM	7/92	RBJ	BAJ	RBJ	7/92
0	ISSUED FOR APPROVAL SB/JDE	12/90	JAH	SB	JAH	1/91

PROJECT SUPERVISOR _____ APPROVED John A. Higgins

THE STATE OF NEW HAMPSHIRE JOHN A. HIGGINS No. 7648 REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

TILTON STREET
(MANHOLE NO. 608)-(MANHOLE NO. 620)
(D.M.H. NO.21)-(D.M.H. NO.23)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 29 OF 57

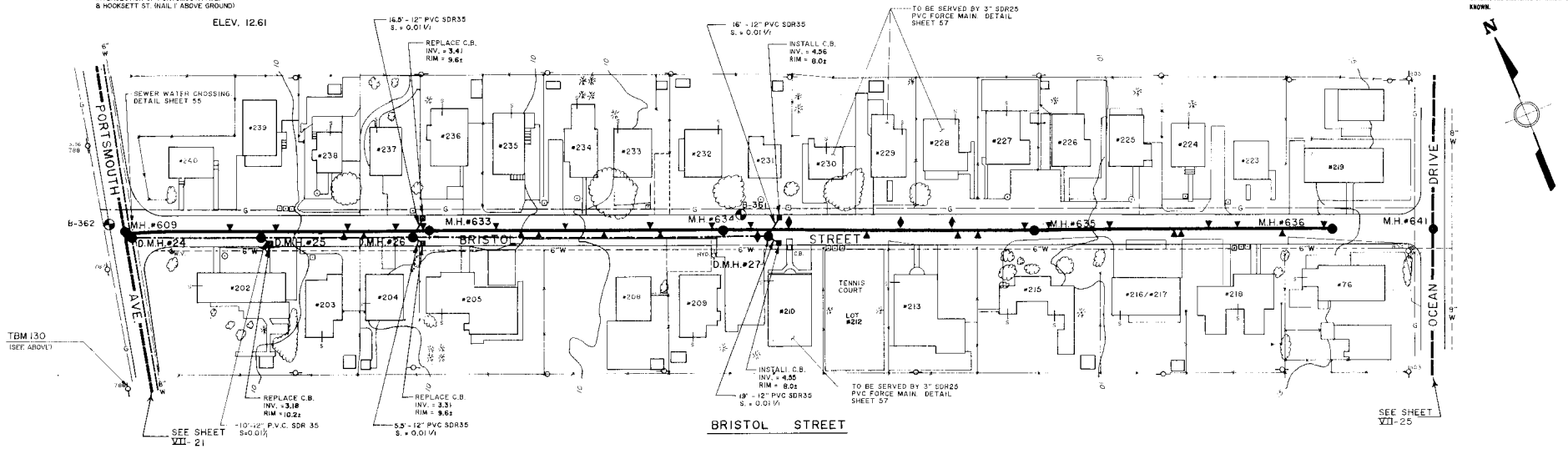
H.P. SHELVAN INC. 509287

TBM 130

SIXTY-PENNY NAIL ON EAST FACE OF UTILITY POLE # 7681 ON WEST SIDE OF PORTSMOUTH AVE. APPROX. 1330± FROM INTERSECTION OF PORTSMOUTH AVE. & HOOKSETT ST. (NAIL 1' ABOVE GROUND)

ELEV. 12.61

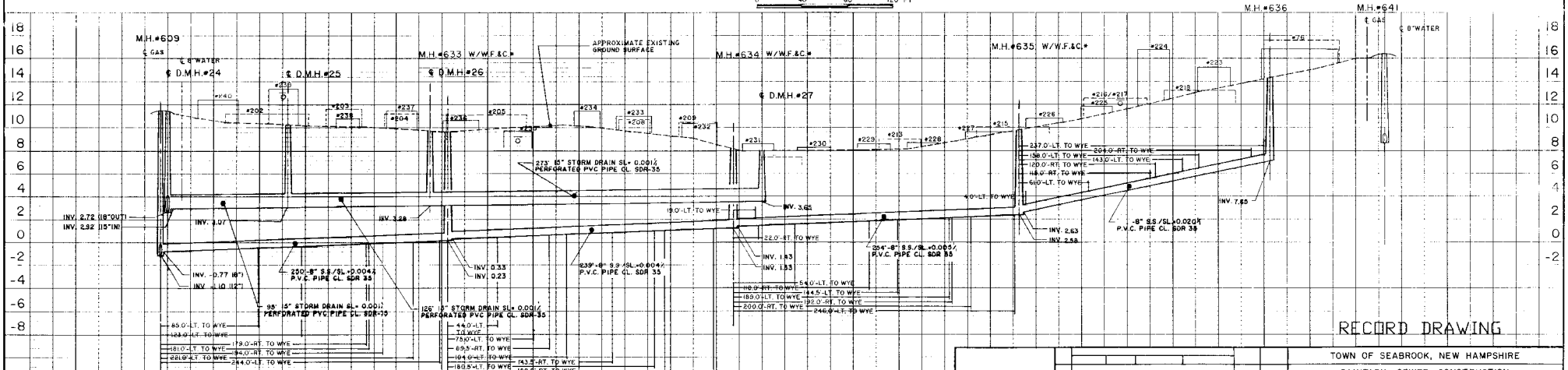
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.


PORTSMOUTH AVE.
BRISTOL STREET
OCEAN DRIVE
TBM 130 (SEE ABOVE)
SEWER WATER CROSSING DETAIL SHEET 55
REPLACE C.B. INV. = 3.41 RIM = 9.6±
16.5'-12" PVC SDR35 S.= 0.01 (+)
16'-12" PVC SDR35 S.= 0.01 (+)
INSTALL C.B. INV. = 4.55 RIM = 8.0±
TO BE SERVED BY 3" SDR25 PVC FORCE MAIN. DETAIL SHEET 57
REPLACE C.B. INV. = 3.18 RIM = 10.2±
10'-12" P.V.C. SDR 35 S=0.01
REPLACE C.B. INV. = 3.31 RIM = 9.6±
5.5'-12" PVC SDR35 S.= 0.01 (+)
INSTALL C.B. INV. = 4.55 RIM = 8.0±
13'-12" PVC SDR35 S.= 0.01 (+)
TO BE SERVED BY 3" SDR25 PVC FORCE MAIN. DETAIL SHEET 57
SEE SHEET VII-21
SEE SHEET VII-25
M.H.#609
M.H.#633
M.H.#634
M.H.#635
M.H.#636
M.H.#641
D.M.H.#24
D.M.H.#25
D.M.H.#26
D.M.H.#27
TENNIS COURT
LOT #212
B-362
B-361

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00 OR BELOW SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECTION 02575

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	K.R.	12/95	BHJ		BHJ	12/95
1	ADDED PERFORATED PIPE	EM	5/94	BHJ	BHJ	BHJ	5/94
0	ISSUED FOR APPROVAL	SB/JDE	12/90	JAH	SB	JAH	1/91

PROJECT SUPERVISOR _____ APPROVED John A. Higgins

THE STATE OF NEW HAMPSHIRE JOHN A. HIGGINS No. 7548 LICENSED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BRISTOL ST.

(MANHOLE NO. 609)-(MANHOLE NO. 636)

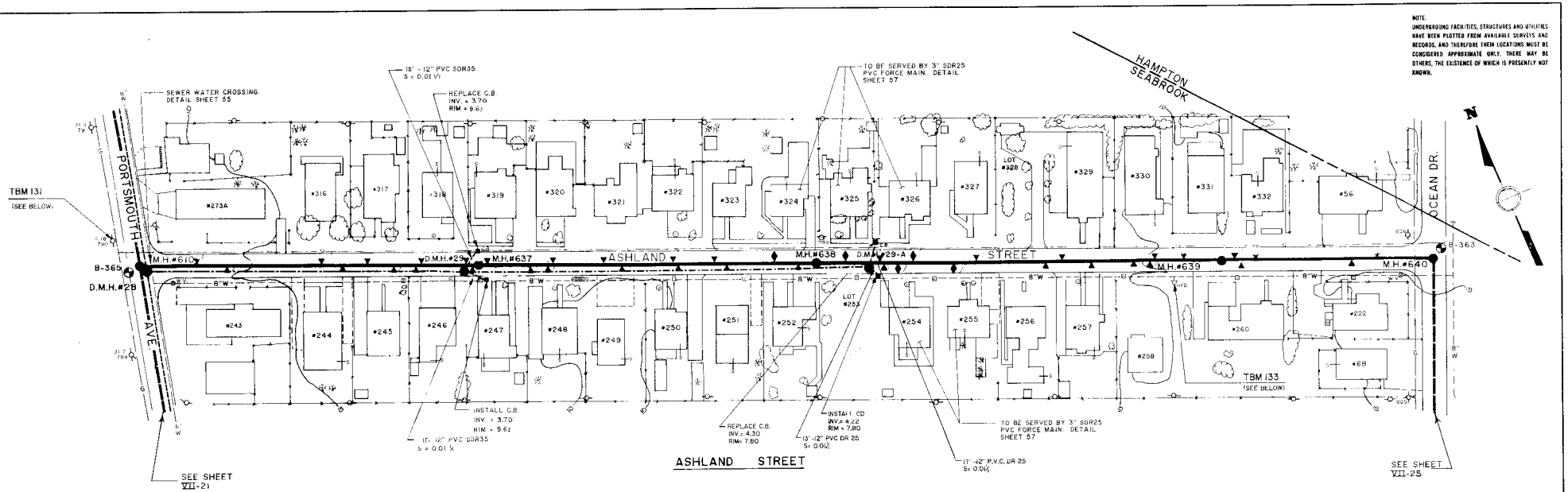
(D.M.H. NO. 24)-(D.M.H. NO. 27)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 30 OF 57



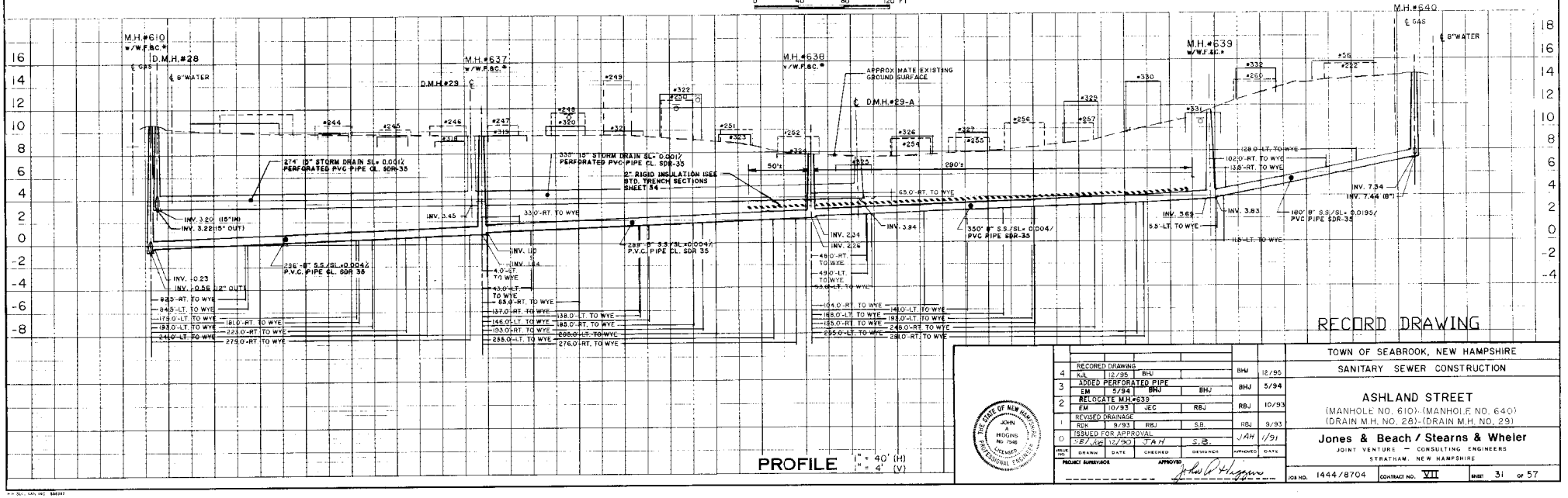
* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00' OR LOWER SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECT. 02575 OF SPECS.

TBM 131
SIXTY-PENNY NAIL ON EAST FACE OF LIGHT POLE (# 790) ON N.W. CORNER OF PORTSMOUTH AVE. & ASHLAND ST. APPROX. 1730' FROM INTERSECTION OF PORTSMOUTH AVE. & HOOKSETT ST. (NAIL 2' ABOVE GROUND)
ELEV. 11.52

TBM 133
SET X-CUT ON S.W. BOLT FIRE HYD. ON S. SIDE OF ASHLAND ST APPROX. 900' EAST OF INTERSECTION OF ASHLAND ST. & PORTSMOUTH AVE.
ELEV. 11.92

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

4	RECORED DRAWING KJL 12/95	BHJ		BHJ	12/95
3	ADDED PERFORATED PIPE EM 5/94	BHJ	BHJ	BHJ	5/94
2	RELOCATE M.H.#639 EM 10/93	JEC	RBJ	RBJ	10/93
1	REVISED DRAINAGE RDK 9/93	RBJ	S.B.	RBJ	9/93
0	ISSUED FOR APPROVAL PER LTR 12/90	JAH	S.B.	JAH	1/91
ISSUE NO.	DRAWN DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED: John R. Higgins

THE STATE OF NEW HAMPSHIRE JOHN HIGGINS NO. 7596 LICENSED PROFESSIONAL ENGINEER

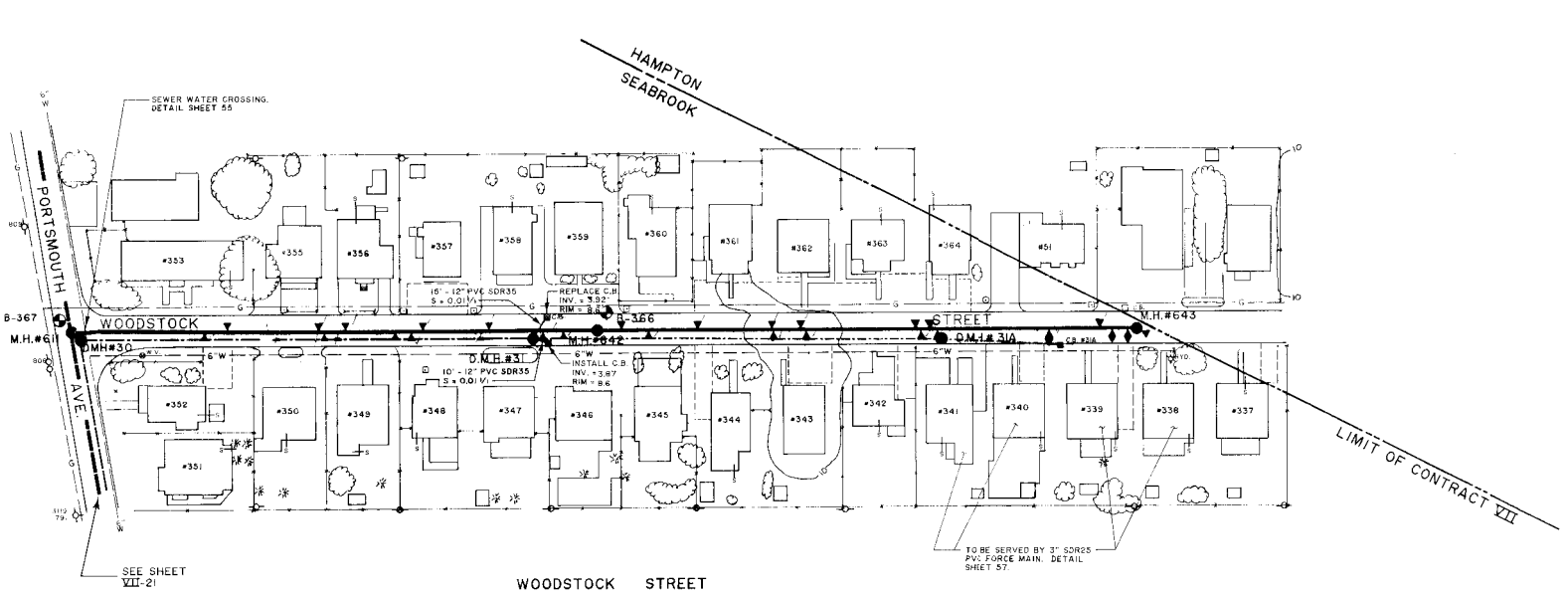
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

ASHLAND STREET
(MANHOLE NO. 610)-(MANHOLE NO. 640)
(DRAIN M.H. NO. 28)-(DRAIN M.H. NO. 29)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 31 OF 57

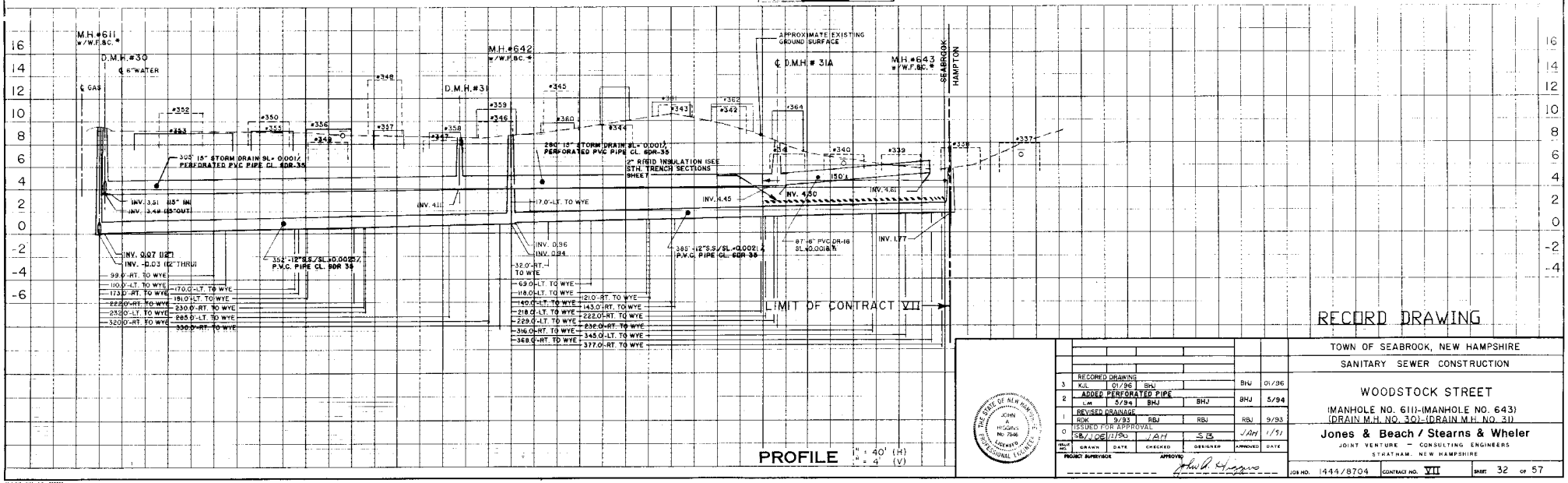
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



WOODSTOCK STREET

* ALL SANITARY SEWER MANHOLES WITH RIMS AT ELEV. 11.00' OR LOWER SHALL HAVE WATERTIGHT M.H. FRAMES & COVERS AS SPECIFIED IN SECT. 02575 OF SPECS.

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

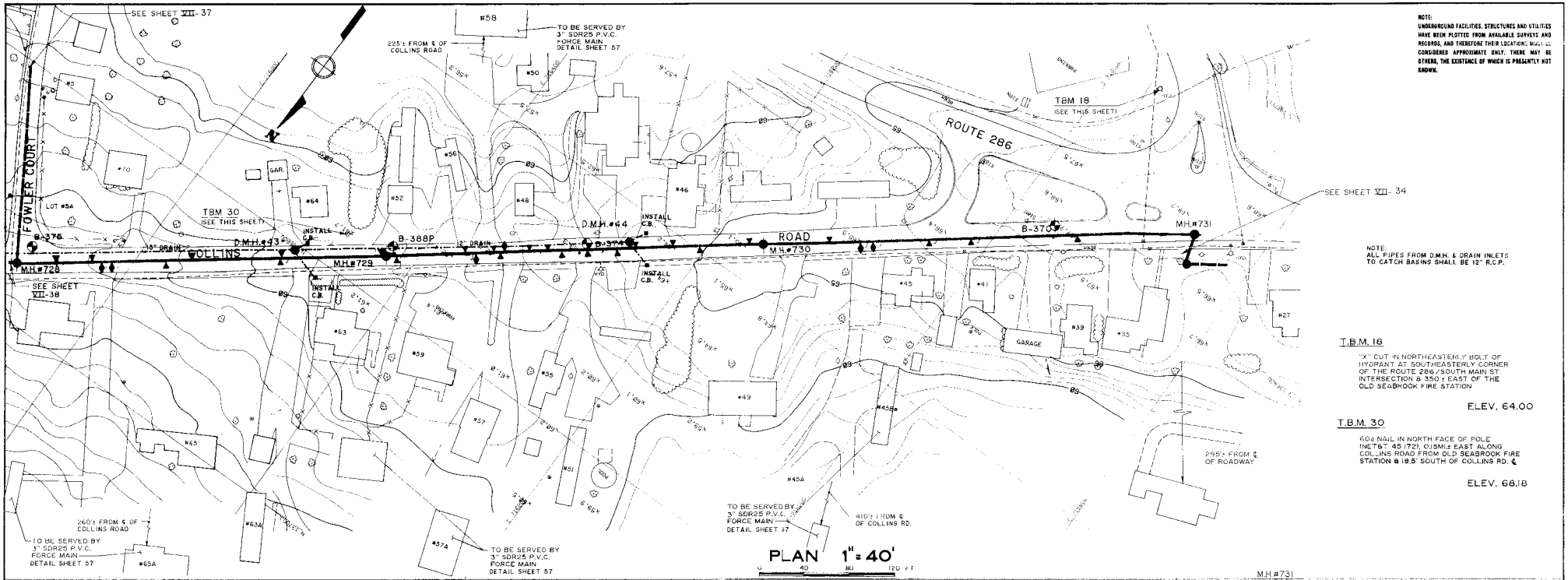
RECORD DRAWING

3	RECORED DRAWING. Kal. 01/96	BHJ		BHJ	01/96
2	ADDED PERFORATED PIPE LM 5/94	BHJ	BHJ	BHJ	5/94
1	REVISED DRAINAGE RDK 9/93	RBJ	RBJ	RBJ	9/93
0	ISSUED FOR APPROVAL SB/JOE 11/90	JAH	SB	JAH	11/91
ISSUE NO.	DRAWN / DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED John A. Higgins

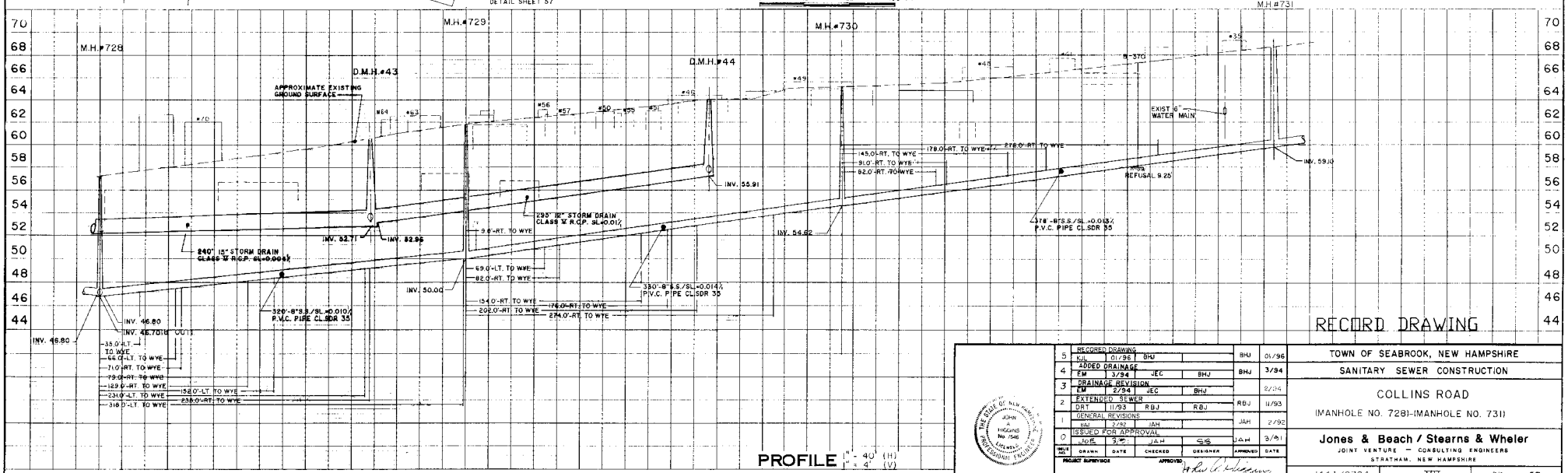
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
WOODSTOCK STREET
(MANHOLE NO. 611)-(MANHOLE NO. 643)
(DRAIN M.H. NO. 30)-(DRAIN M.H. NO. 31)
Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 32 OF 57


SEE SHEET VII-37
#58
TO BE SERVED BY 3" SDR25 P.V.C. FORCE MAIN DETAIL SHEET 57
225± FROM ℄ OF COLLINS ROAD
FOWLER COURT
LOT #5A
TBM 30
(SEE THIS SHEET)
TBM 18
(SEE THIS SHEET)
ROUTE 286
SEE SHEET VII-34
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
B-376
B-388P
B-370
B-374
D.M.H.#43
D.M.H.#44
M.H.#728
M.H.#729
M.H.#730
M.H.#731
INSTALL C.B.
15" DRAIN
12" DRAIN
COLLINS ROAD
SEE SHEET VII-38
GARAGE
NOTE:
ALL PIPES FROM D.M.H. & DRAIN INLETS TO CATCH BASINS SHALL BE 12" R.C.P.
T.B.M. 18
"X" CUT IN NORTHEASTERLY BOLT OF HYDRANT AT SOUTHEASTERLY CORNER OF THE ROUTE 286/SOUTH MAIN ST. INTERSECTION & 350± EAST OF THE OLD SEABROOK FIRE STATION
ELEV. 64.00
T.B.M. 30
60d NAIL IN NORTH FACE OF POLE (NETS 7° 45 (72), 0.9MILE EAST ALONG COLLINS ROAD FROM OLD SEABROOK FIRE STATION & 18.5' SOUTH OF COLLINS RD. ℄
ELEV. 68.18
295± FROM ℄ OF ROADWAY
260± FROM ℄ OF COLLINS ROAD
TO BE SERVED BY 3" SDR25 P.V.C. FORCE MAIN DETAIL SHEET 57
#65A
#63A
#57A
TO BE SERVED BY 3" SDR25 P.V.C. FORCE MAIN DETAIL SHEET 57
#45A
TO BE SERVED BY 3" SDR25 P.V.C. FORCE MAIN DETAIL SHEET 57
410± FROM ℄ OF COLLINS RD.

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

5	RECORDED DRAWING	KJB	1.01/96	BHJ		BHJ	01/96
4	ADDED DRAINAGE	EM	3/94	JEC	BHJ	BHJ	3/94
3	DRAINAGE REVISION	EM	2/94	JEC	BHJ		2/94
2	EXTENDED SEWER	DRT	11/93	RBJ	RBJ	RBJ	11/93
1	GENERAL REVISIONS	SAJ	2/92	JAH		JAH	2/92
0	ISSUED FOR APPROVAL	JOE	3/91	JAH	SJS	JAH	3/91
		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

THE SEAL OF N.H. JOHN L. HIGGINS No. 7546 REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

COLLINS ROAD

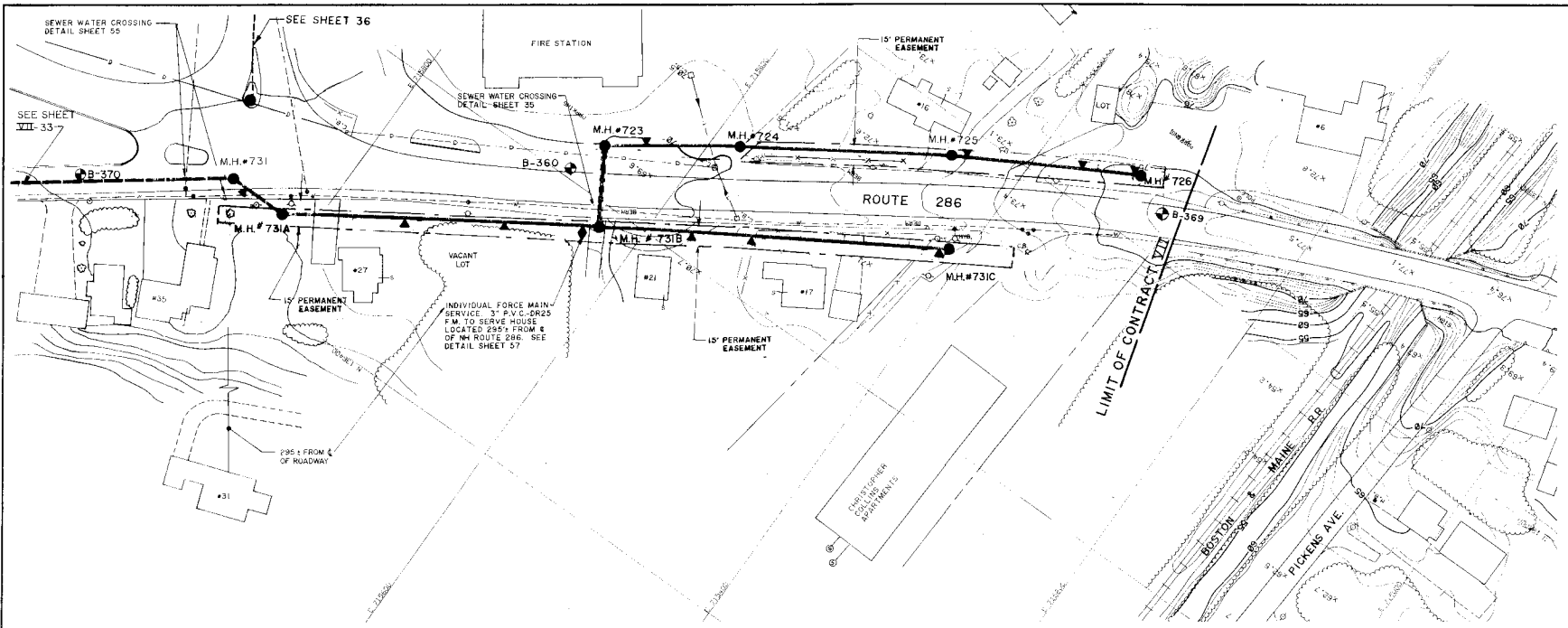
(MANHOLE NO. 728)-(MANHOLE NO. 731)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 33 OF 57



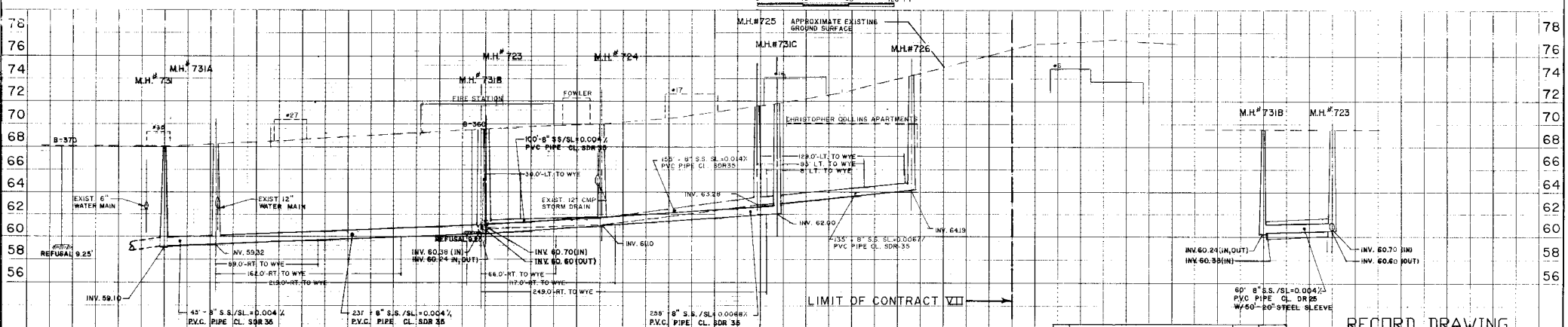
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

NOTE:
ALL PIPES FROM D.M.H. & DRAIN INLETS TO CATCH BASINS SHALL BE 12" R.C.P.

PLAN 1" = 40'

0 40 80 120 FT

PROFILE 1" = 40' (H) 1" = 4' (V)



RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
6	KJL	8/96	BHJ		BHJ	8/96
5	ADDED DRAINAGE EM 3/94 JEC			BHJ	BHJ	3/94
4	GENERAL REVISIONS DRT 11/93		RBJ	RBJ	RBJ	11/93
3	ADDED SEWER DRT 10/93		BHJ	BHJ	BHJ	10/93
2	GENERAL REVISIONS BAJ 2/92		JAH		JAH	2/92
1	GENERAL REVISIONS WM 5/91		JAH	RBJ	JAH	5/91
0	ISSUED FOR APPROVAL JOE 4/91		JAH	SB	JAH	4/91

PROJECT SURVEYOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ROUTE 286

(MANHOLE NO. 731-(MANHOLE NO. 725)

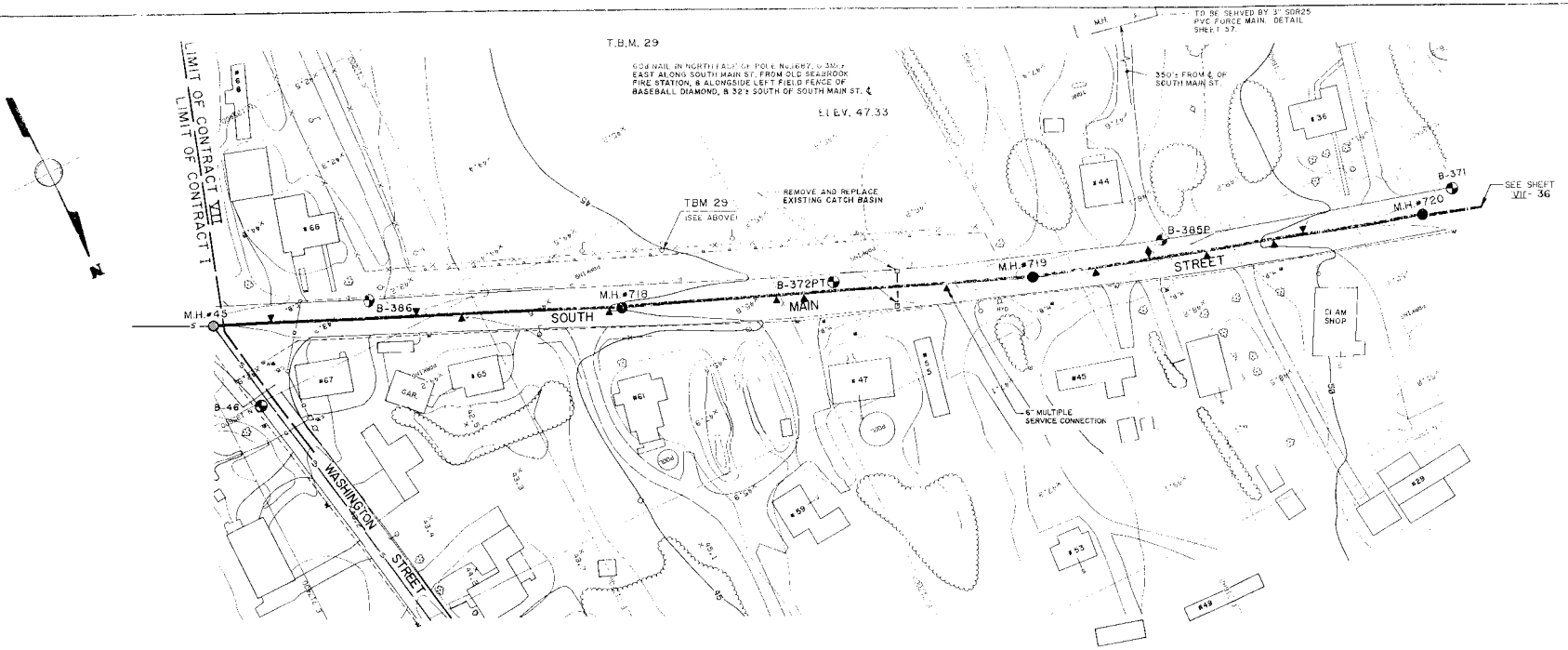
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

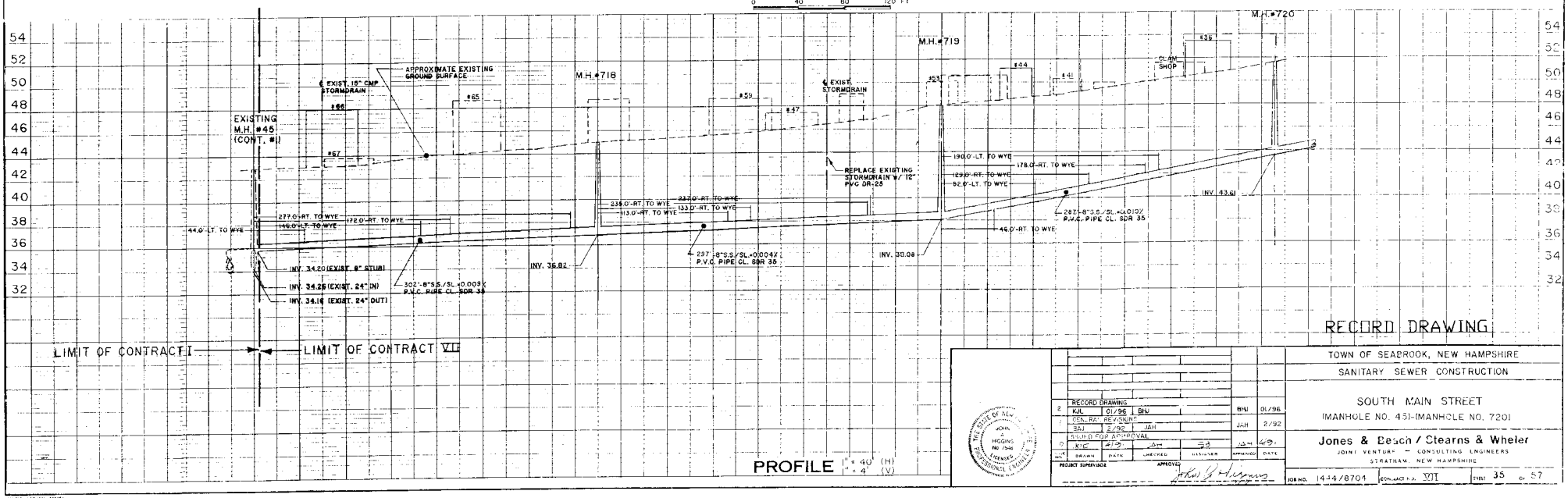
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/6704 | CONTRACT NO. VII | SHEET 34 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
1	CON. RAT REVISIONS	BAJ	2/92	JAH		JAH	2/92
0	ISSUED FOR APPROVAL	KJC	4/75	JH	JH	JH	4/75

PROJECT SUPERVISOR: JOHN J. HIGGINS No. 7546 LICENSED PROFESSIONAL ENGINEER
APPROVED: John J. Higgins

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
SOUTH MAIN STREET
(MANHOLE NO. 45)-(MANHOLE NO. 720)
Jones & Beach / Stearns & Wheler
JOINT VENTURE - CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT VII | SHEET 35 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

REMOVE AND REPLACE EXISTING CATCH BASIN

SEE SHEET VII - 35

SEE SHEET VII - 34

SEE SHEET VII - 33

M.H.#720

M.H.#721

M.H.#722

M.H.#723

M.H.#731

B-371

B-384P

B-364

SOUTH MAIN STREET

ROUTE 286

COLLINS RD

FIRE STATION

TBM 18
(SEE THIS SHEET)

T.B.M. 18

"X" CUT IN NORTHEASTERLY BOLT OF HYDRANT AT SOUTHEASTERLY CORNER OF THE ROUTE 286/SOUTH MAIN ST. INTERSECTION & 350'± EAST OF OLD SEABROOK FIRE STATION

ELEV. 68.18

PLAN 1" = 40'

0 40 80 120 FT

APPROXIMATE EXISTING GROUND SURFACE

INV. 43.61

INV. 47.87

INV. 52.02

INV. 56.48

222'-8"S.S./SL.=0.018% P.V.C. PIPE CL. SDR 35

69.0'-LT. TO WYE

152.8'-RT. TO WYE

91.0'-LT. TO WYE

83.0'-RT. TO WYE

22.0'-RT. TO WYE

101.0'-RT. TO WYE

157.0'-RT. TO WYE

219.0'-RT. TO WYE

224'-8"S.S./SL.=0.019 ft P.V.C. PIPE CL. SDR35

251'-0"S.S./SL.=0.019 ft P.V.C. PIPE CL. SDR35

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	ISSUE	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
1	GENERAL REVISIONS	BAJ	2/92	JAH		JAH	2/92
0	ISSUED FOR APPROVAL	GEB	4/91	JAH	GEB	JAH	4/91

PROJECT SUPERVISOR

APPROVED

THE SEAL OF JOHN A. HIGGINS NO. 7546 LICENSED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

SOUTH MAIN STREET

(MANHOLE NO. 720)-(MANHOLE NO. 723)

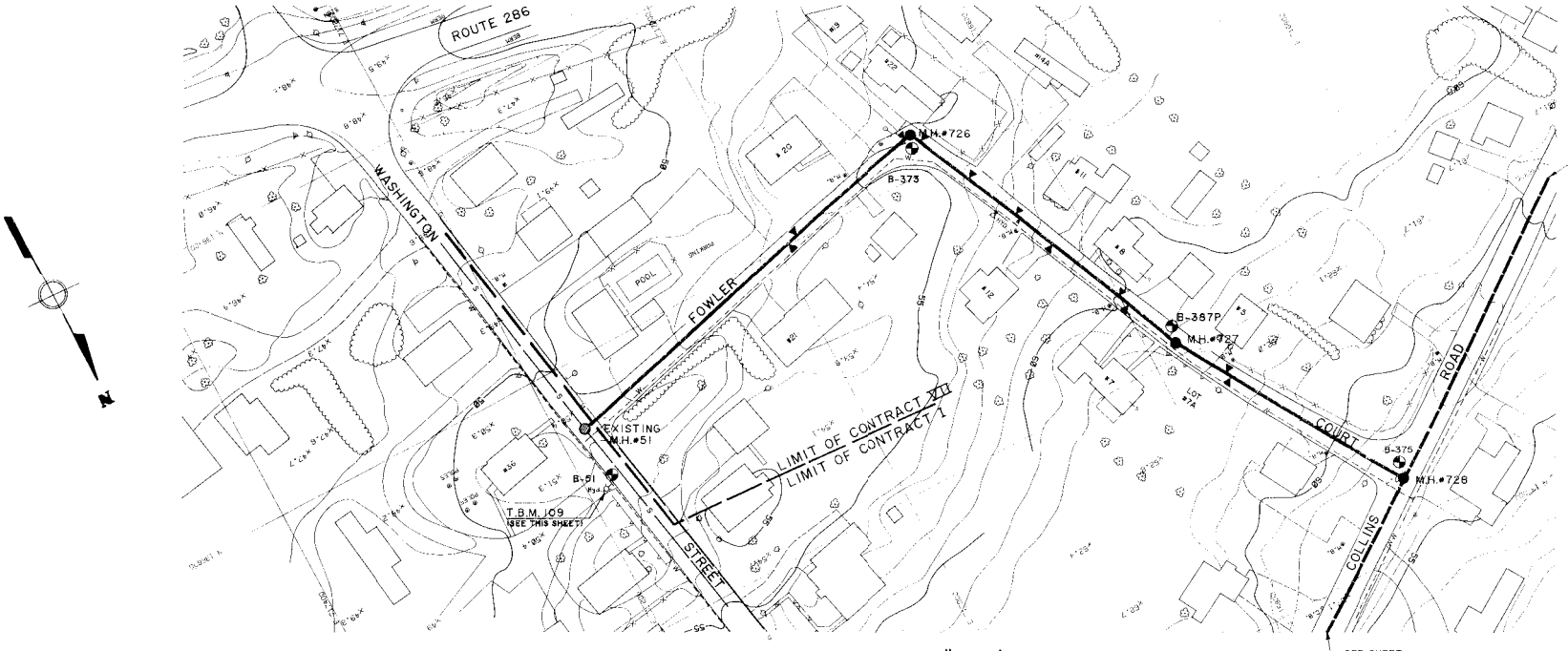
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 36 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



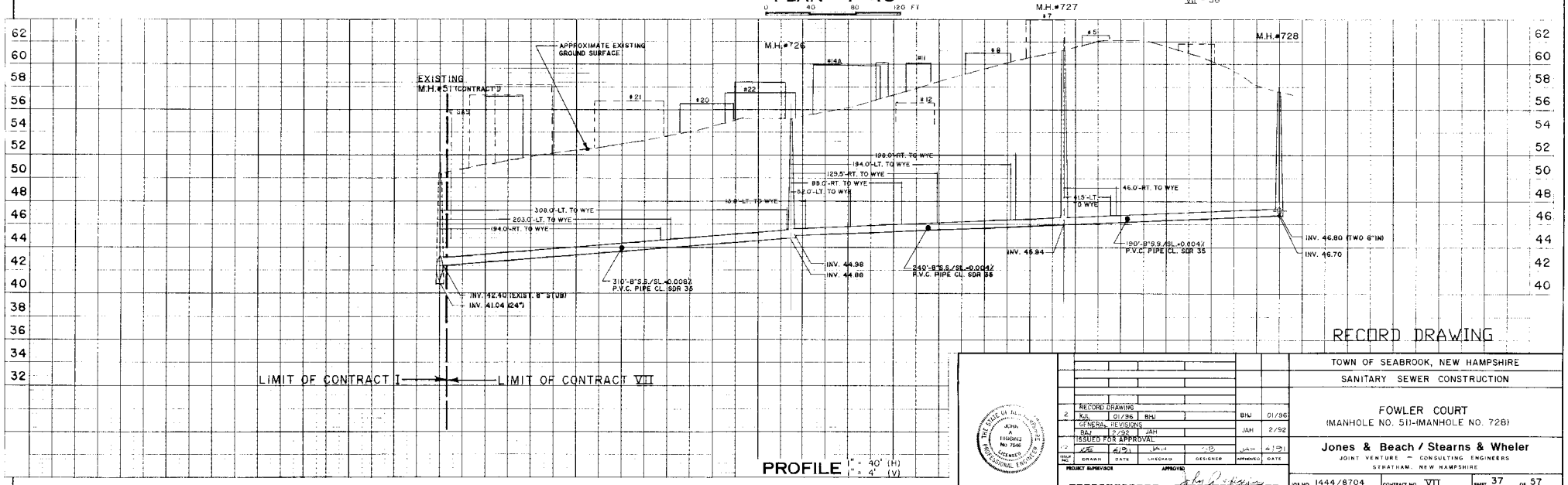
T.B.M. 109

TOP OF NORTHEASTERLY BOLT ON HYDRANT, LOCATED ON EASTERLY SIDE OF WASHINGTON ST. & 50± NORTH OF FOWLER CT. ENTRANCE.

ELEV. 54.23

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE JOHN A. HIGGINS No. 7546 LICENSED PROFESSIONAL ENGINEER

					BHJ	01/96
2	RECORD DRAWING				JAH	2/92
	K.L.	01/96	BHJ			
1	GENERAL REVISIONS					
	RLJ	12/92	JAH			
0	ISSUED FOR APPROVAL					
	KLS	4/91	JAH		JAH	4/91
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

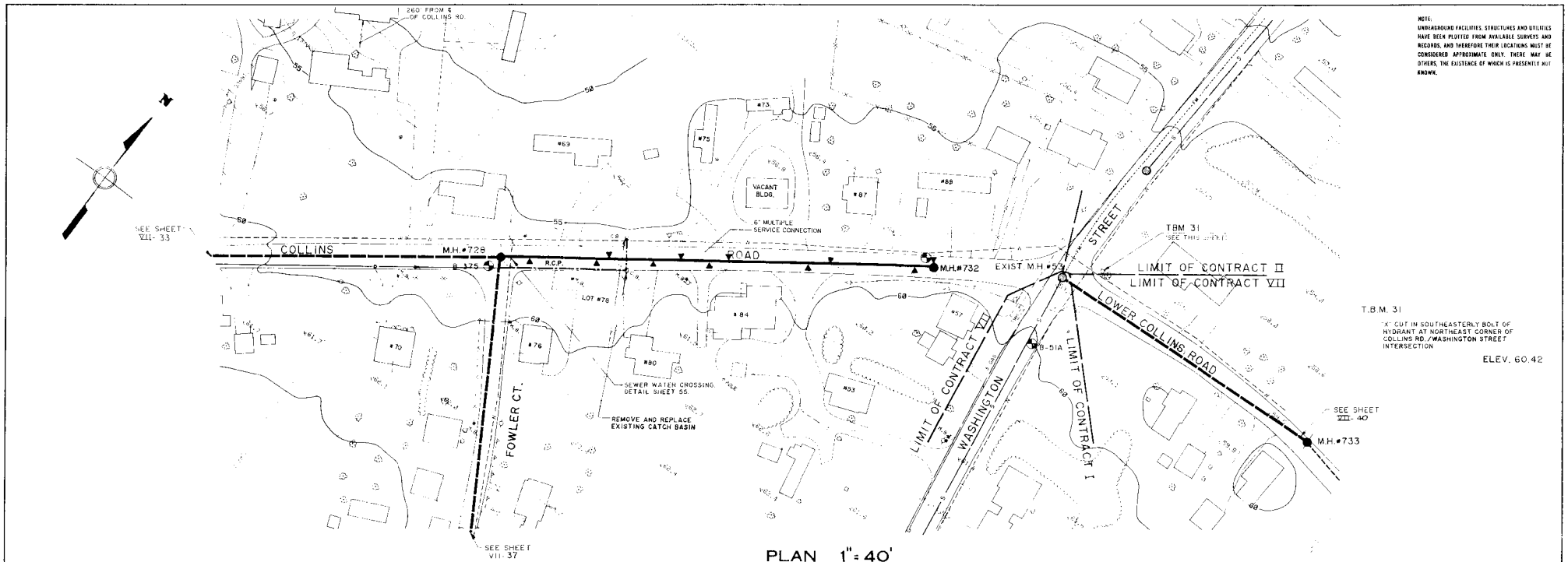
TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOWLER COURT
(MANHOLE NO. 51)-(MANHOLE NO. 728)

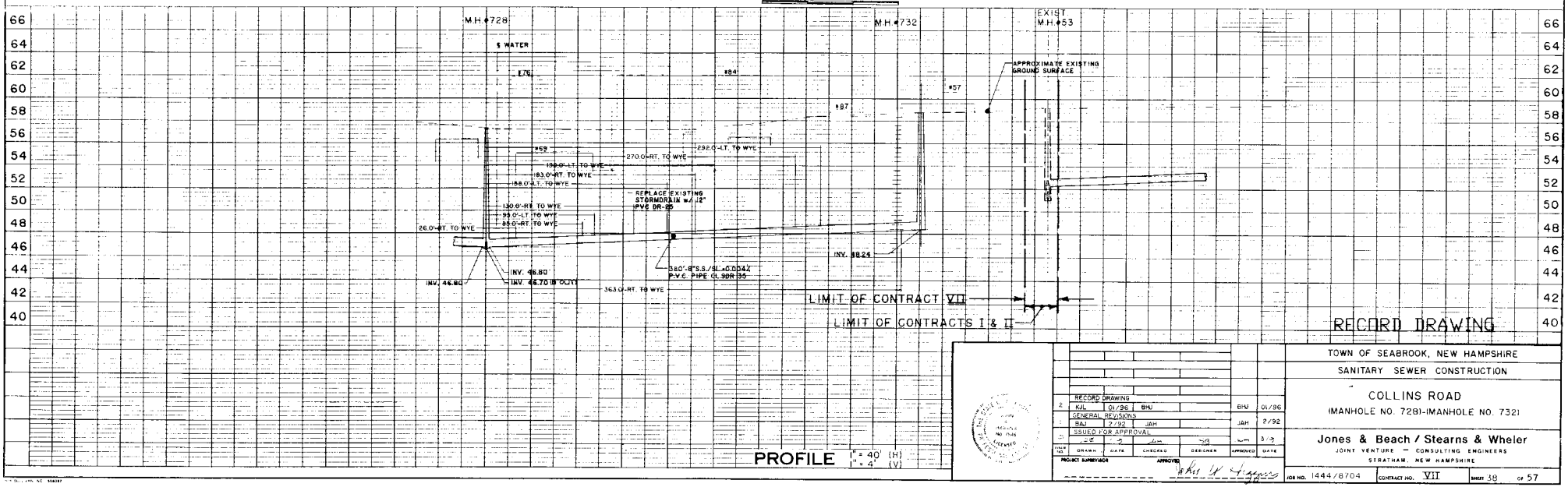
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 37 OF 57



PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

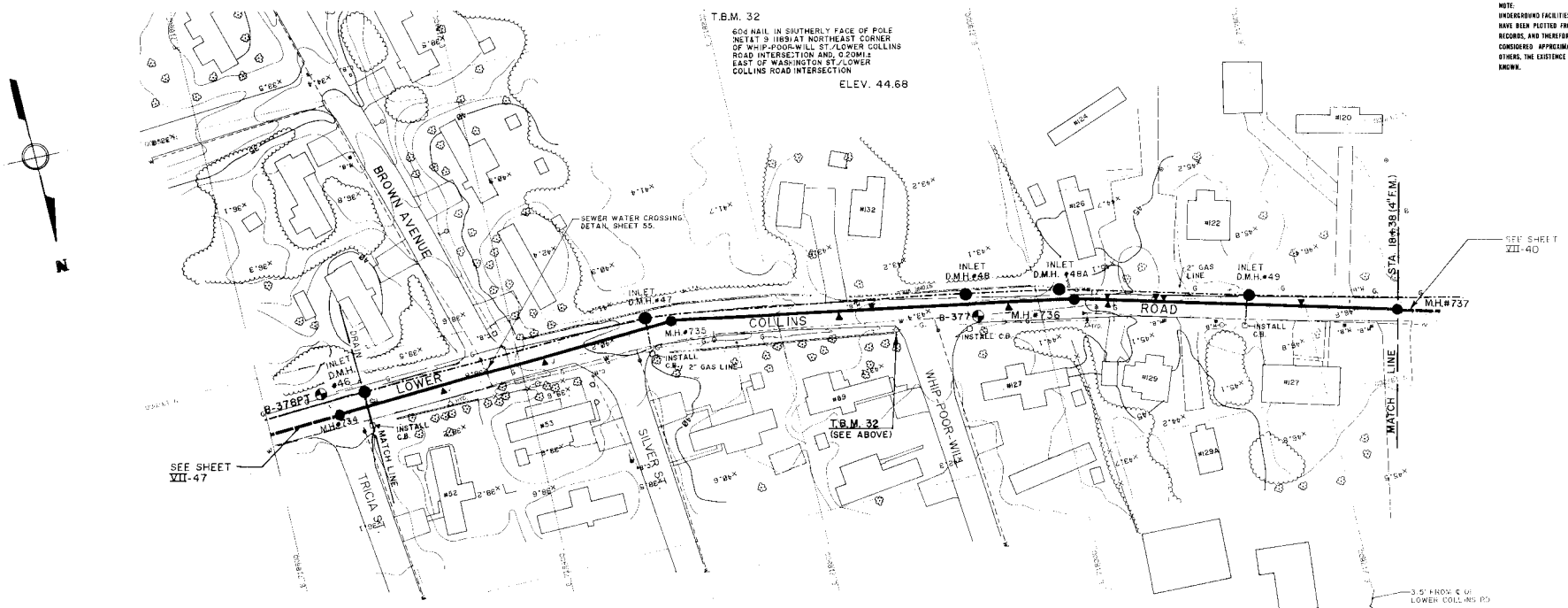
NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
1	GENERAL REVISIONS	RAJ	2/92	JAH		JAH	2/92
0	ISSUED FOR APPROVAL						3/9

PROJECT SUPERVISOR
APPROVED

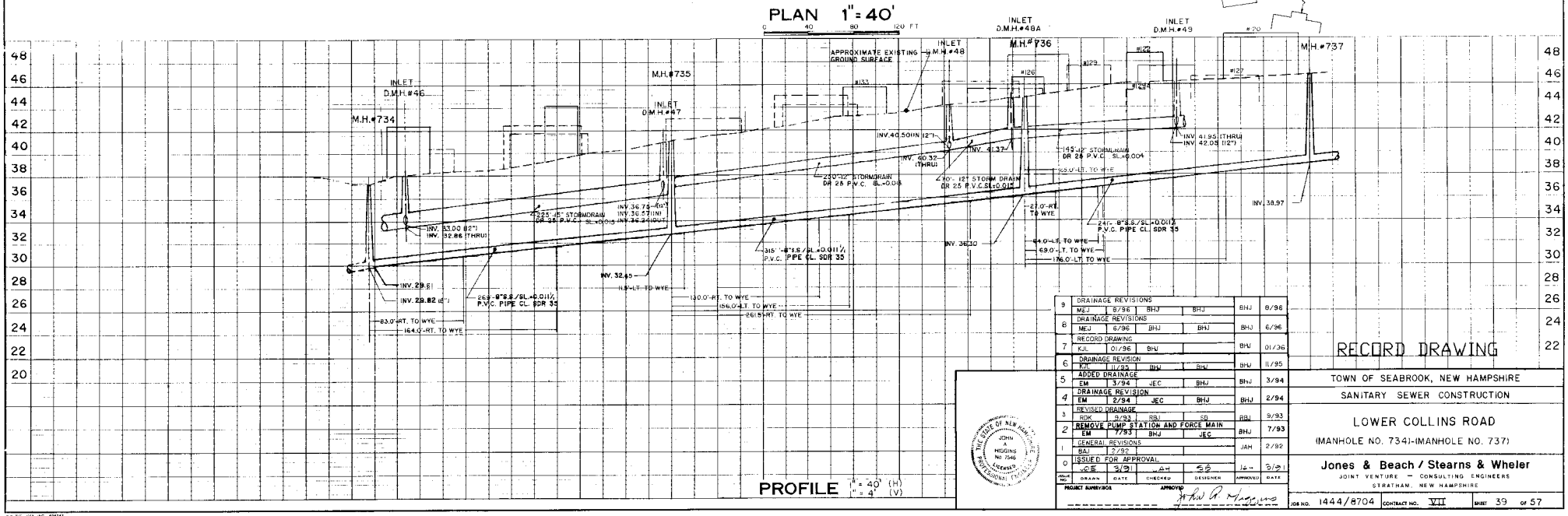
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
COLLINS ROAD
(MANHOLE NO. 728)-(MANHOLE NO. 732)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 38 OF 57



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

9	DRAINAGE REVISIONS	MEJ	8/96	BHJ	BHJ	BHJ	8/96
8	DRAINAGE REVISIONS	MEJ	6/96	BHJ	BHJ	BHJ	6/96
7	RECORD DRAWING	KJL	01/96	BHJ		BHJ	01/96
6	DRAINAGE REVISION	KJL	11/95	BHJ	BHJ	BHJ	11/95
5	ADDED DRAINAGE	EM	3/94	JEC	BHJ	BHJ	3/94
4	DRAINAGE REVISION	EM	2/94	JEC	BHJ	BHJ	2/94
3	REVISED DRAINAGE	RDK	8/93	RBJ	SB	RBJ	9/93
2	REMOVE PUMP STATION AND FORCE MAIN	EM	7/93	BHJ	JEC	BHJ	7/93
1	GENERAL REVISIONS	BAJ	2/92			JAH	2/92
0	ISSUED FOR APPROVAL	JCE	3/91	JAH	SB	JCE	3/91
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

THE STATE OF NEW HAMPSHIRE JOHN A. HIGGINS NO. 7546 LICENSED PROFESSIONAL ENGINEER

PROJECT SUPERVISOR _____ APPROVED _____

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

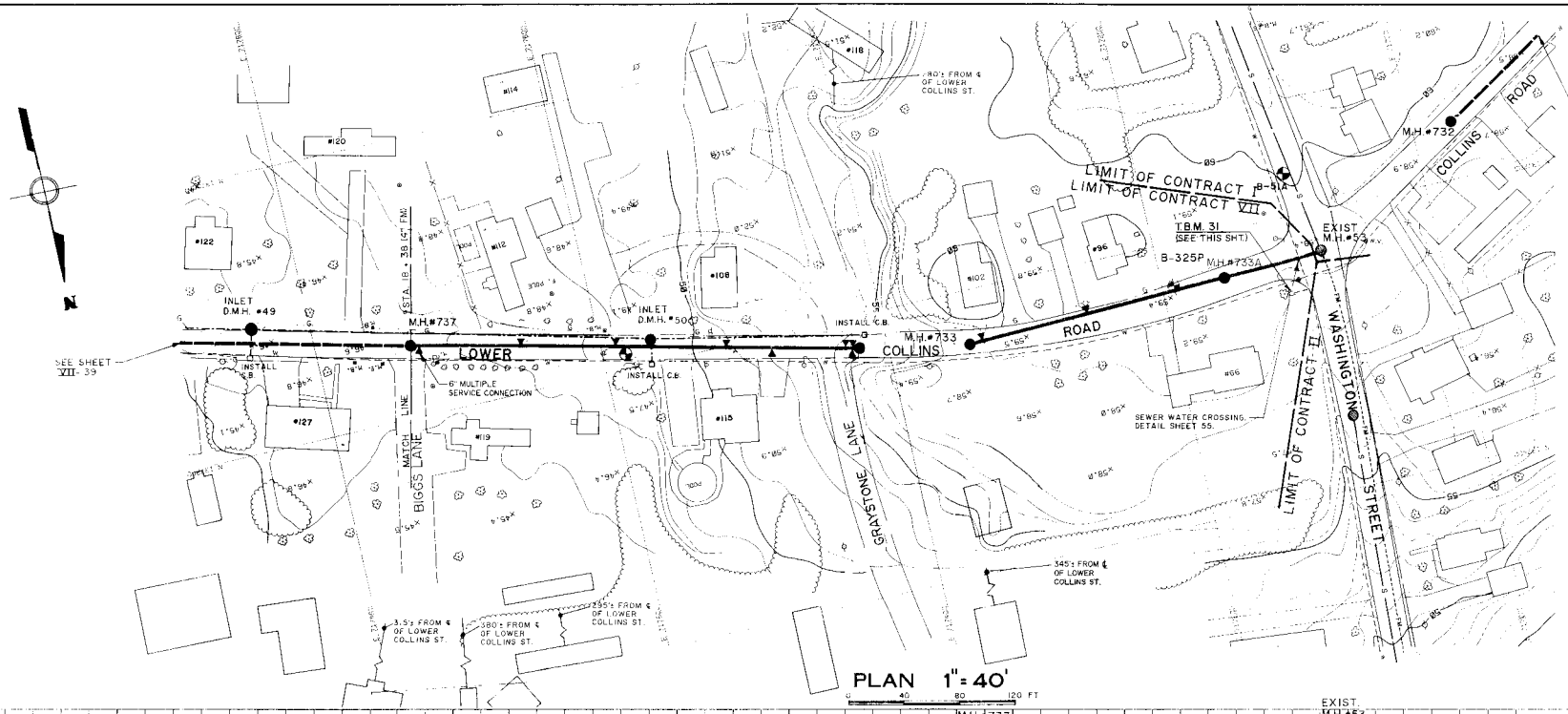
LOWER COLLINS ROAD

(MANHOLE NO. 734)-(MANHOLE NO. 737)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

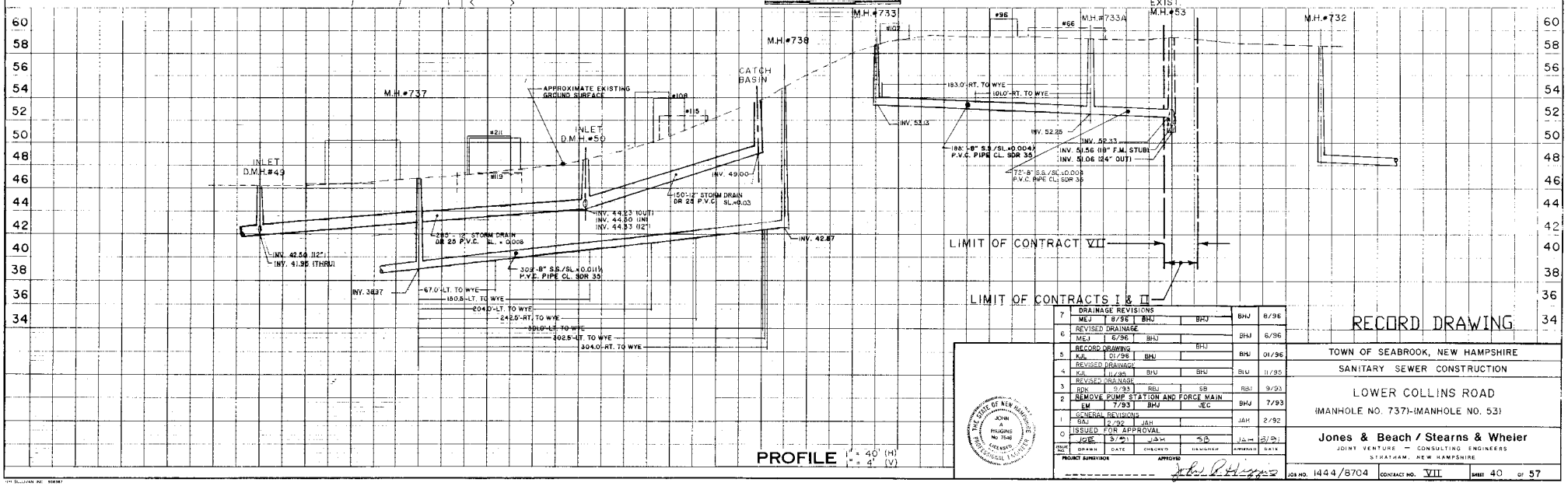
JOB NO. 1444/8704 CONTRACT NO. VII SHEET 39 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



T.B.M. 31
"X" CUT ON TOP OF SOUTHEASTERLY BOLT OF FIRE HYDRANT AT NORTHEAST CORNER OF COLLINS RD./WASHINGTON ST. INTERSECTION
ELEV. 60.42

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
7	DRAINAGE REVISIONS MEJ	8/96	BHJ	BHJ	BHJ	8/96
6	REVISED DRAINAGE MEJ	6/96	BHJ		BHJ	6/96
5	RECORD DRAWING KJL	01/96	BHJ	BHJ	BHJ	01/96
4	KJL	11/95	BHJ	BHJ	BHJ	11/95
3	REVISED DRAINAGE RDN	7/93	REJ	SB	RBJ	9/93
2	REMOVE PUMP STATION AND FORCE MAIN EM	7/93	BHJ	JEC	BHJ	7/93
1	GENERAL REVISIONS BAJ	2/92	JAH		JAH	2/92
0	ISSUED FOR APPROVAL JSB	3/91	JSH	SB	JSH	3/91

PROJECT SUPERVISOR — APPROVED

JOHN A. HIGGINS No. 7646 LICENSED PROFESSIONAL ENGINEER — THE STATE OF NEW HAMPSHIRE

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

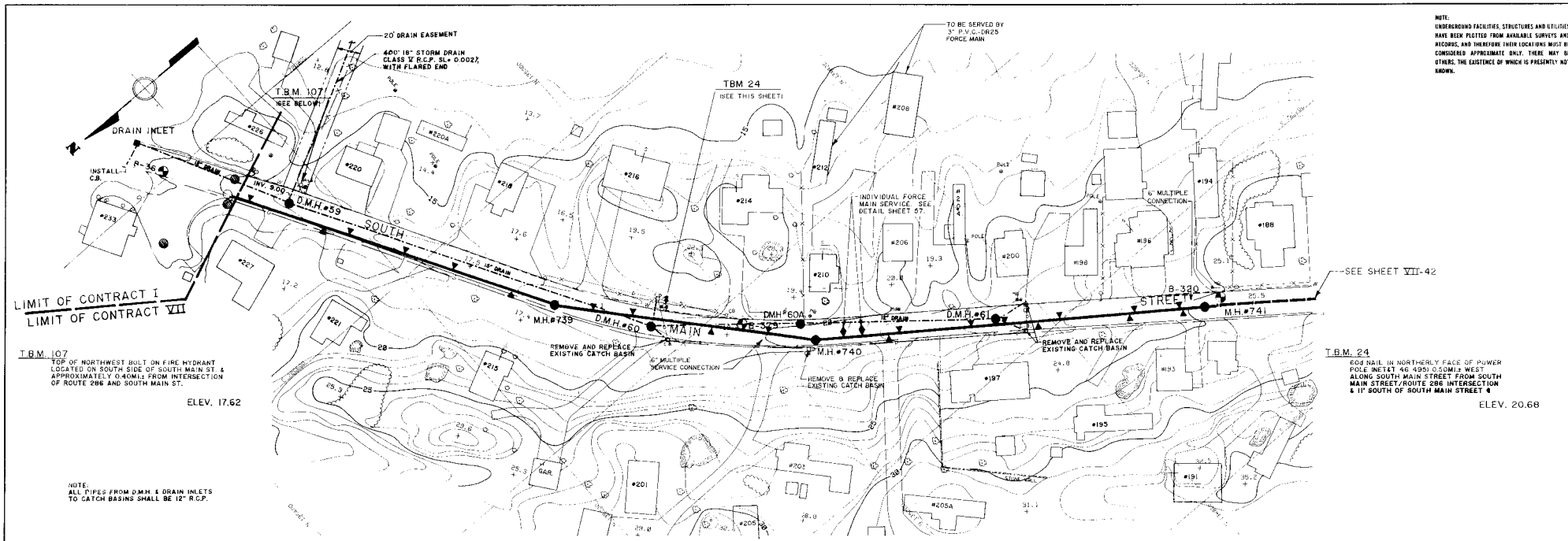
SANITARY SEWER CONSTRUCTION

LOWER COLLINS ROAD

(MANHOLE NO. 737)-(MANHOLE NO. 53)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 40 OF 57



T.B.M. 107
TOP OF NORTHWEST BOLT ON FIRE HYDRANT LOCATED ON SOUTH SIDE OF SOUTH MAIN ST. & APPROXIMATELY 0.40MI.± FROM INTERSECTION OF ROUTE 286 AND SOUTH MAIN ST.

ELEV. 17.62

T.B.M. 24
60d NAIL IN NORTHERLY FACE OF POWER POLE (NET&T 46 495) 0.50MI.± WEST ALONG SOUTH MAIN STREET FROM SOUTH MAIN STREET/ROUTE 286 INTERSECTION & 11' SOUTH OF SOUTH MAIN STREET ¢

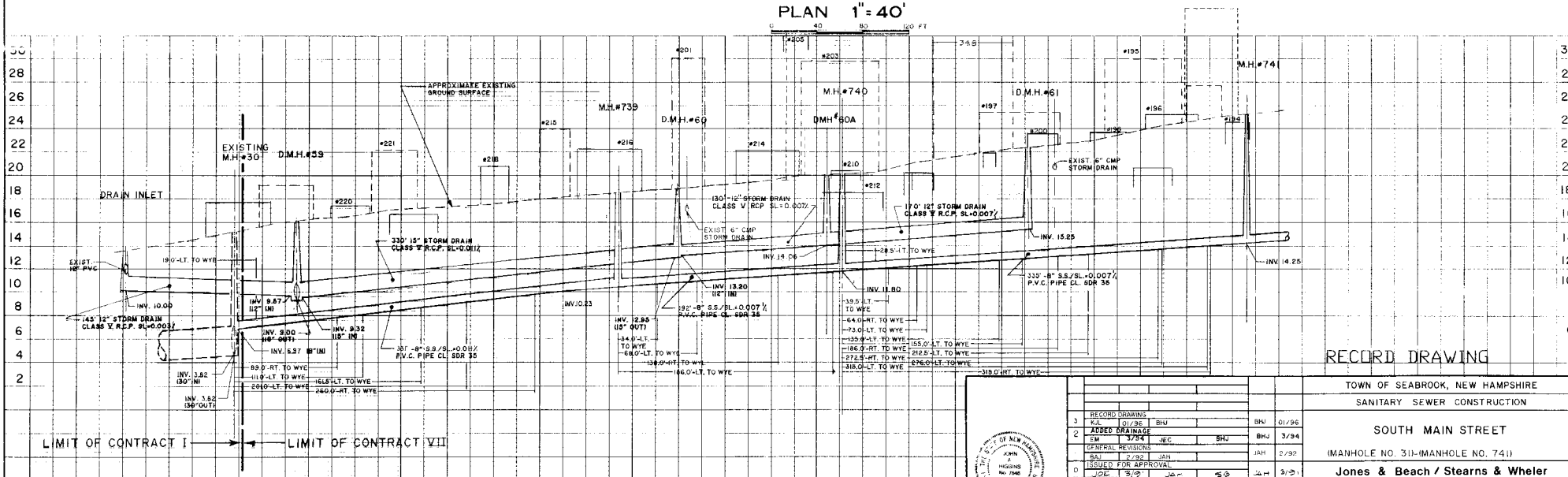
ELEV. 20.68

NOTE:
ALL PIPES FROM D.M.H. & DRAIN INLETS TO CATCH BASINS SHALL BE 12" R.C.P.

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	KJL	01/96	BHJ		BHJ 01/96
2	ADDED DRAINAGE	EM	3/94	JEC	BHJ	BHJ 3/94
1	GENERAL REVISIONS	RAL	2/92	JAH		JAH 2/92
0	ISSUED FOR APPROVAL	JOE	3/9	JG	SB	JH 3/91

PROJECT SUPERVISOR: APPROVED: John D. Higgins

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

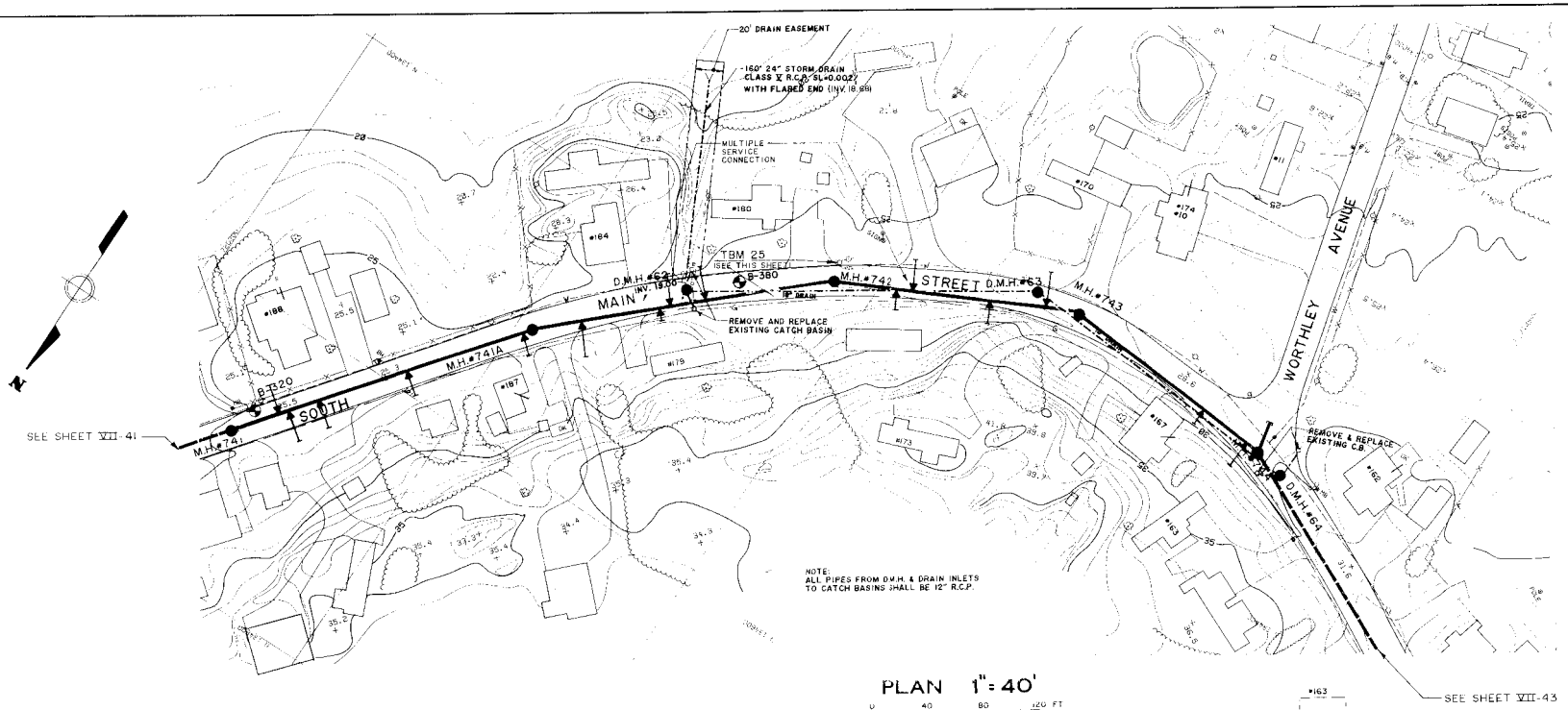
SOUTH MAIN STREET

(MANHOLE NO. 30)-(MANHOLE NO. 741)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

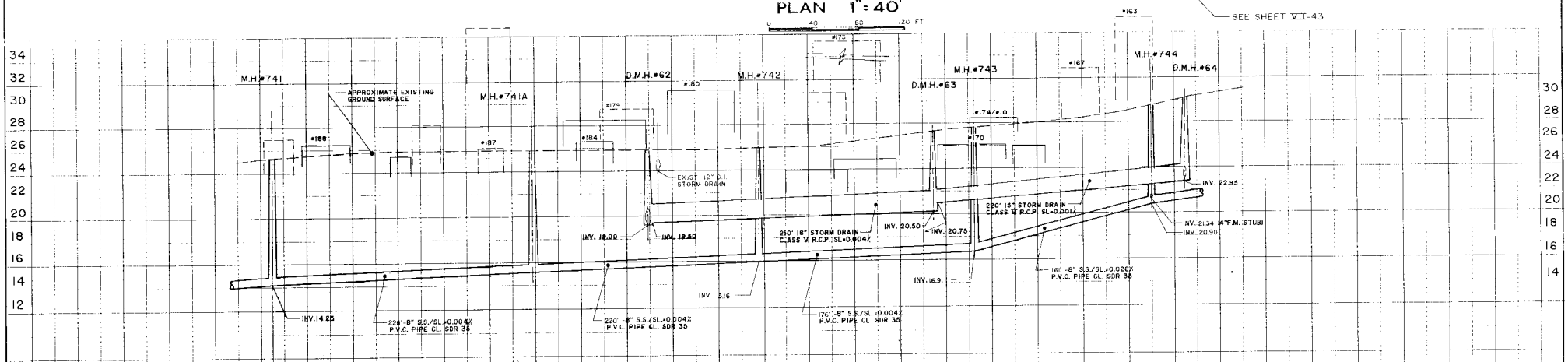
JOB NO. 1444/8704 CONTRACT NO. VII SHEET 41 OF 57

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



T.B.M. 25
"X" CUT IN BOLT HEAD ON FIRE HYDRANT, LOCATED ALONG SOUTH MAIN STREET, 0.65M± WEST OF SOUTH MAIN STREET/ ROUTE 286 INTERSECTION, & 15'± SOUTH OF SOUTH MAIN STREET ℄
ELEV. 26.80

PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

3	RECORD DRAWING	JAP	10/95	RBJ		BHJ	10/95
2	ADDED DRAINAGE	EM	3/94	JEC	BHJ	BHJ	3/94
1	GENERAL REVISIONS	RAJ	7/92	JAH		JAH	7/92
0	ISSUED FOR APPROVAL	JCK	8/91	JAH	HJ	JAH	8/91
		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR
APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

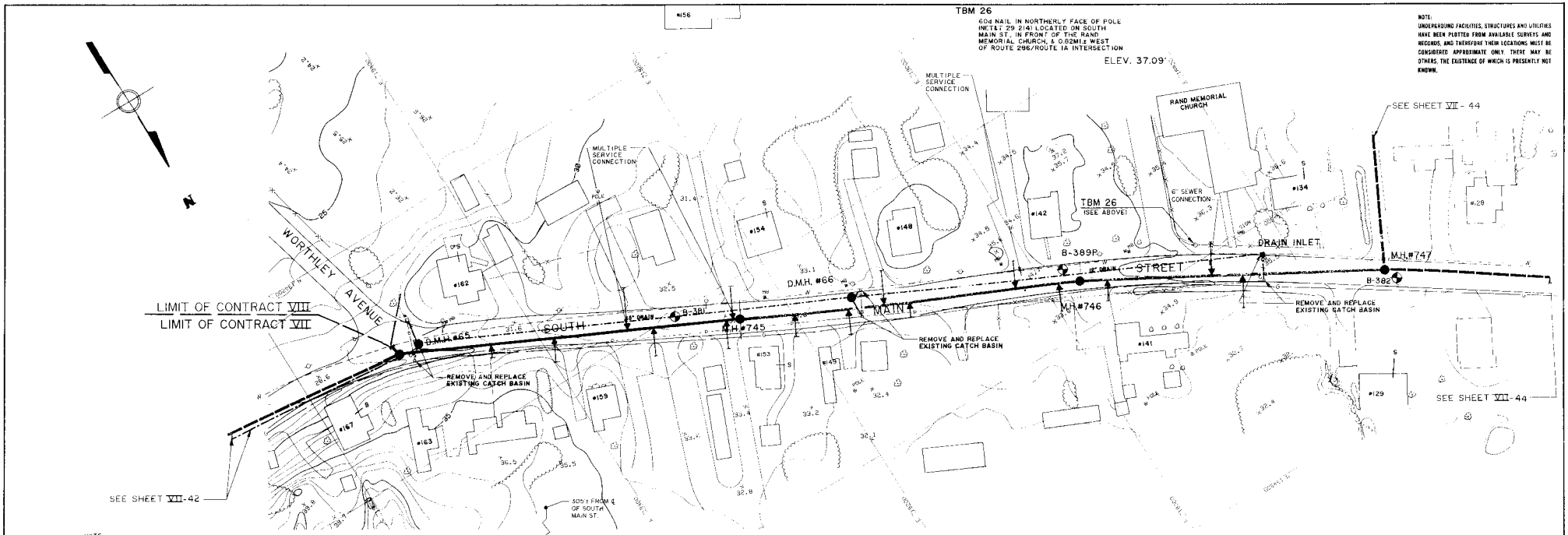
SANITARY SEWER CONSTRUCTION

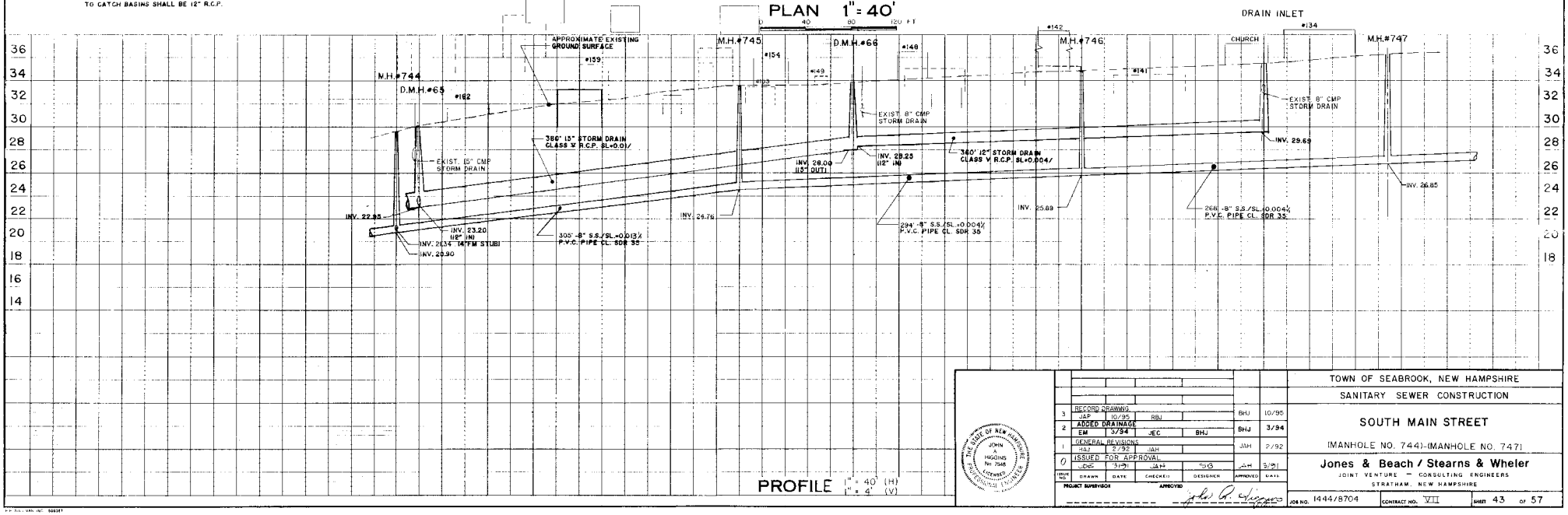
SOUTH MAIN STREET AND WORTHLEY AVENUE

(MANHOLE NO. 741)-(MANHOLE NO. 744)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 42 OF 57


TBM 26
60d NAIL IN NORTHERLY FACE OF POLE
INET&T 29 214 LOCATED ON SOUTH
MAIN ST., IN FRONT OF THE RAND
MEMORIAL CHURCH, & 0.62mi.± WEST
OF ROUTE 286/ROUTE 1A INTERSECTION
ELEV. 37.09'
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
RAND MEMORIAL CHURCH
MULTIPLE SERVICE CONNECTION
6" SEWER CONNECTION
TBM 26
(SEE ABOVE)
SEE SHEET VII - 44
WORTHLEY AVENUE
LIMIT OF CONTRACT VIII
LIMIT OF CONTRACT VII
D.M.H.#65
D.M.H.#66
M.H.#745
M.H.#746
M.H.#747
SOUTH MAIN STREET
12" DRAIN
B-389P±
B-382
DRAIN INLET
REMOVE AND REPLACE EXISTING CATCH BASIN
SEE SHEET VII-42
505'± FROM ℄ OF SOUTH MAIN ST.
NOTE:
ALL PIPES FROM D.M.H. & DRAIN INLETS TO CATCH BASINS SHALL BE 12" R.C.P.
PLAN 1" = 40'
0 40 80 120 FT



ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING			BHJ		10/95
2	ADDED DRAINAGE	EM	3/94	JEC	BHJ	3/94
1	GENERAL REVISIONS	RBJ	2/92	JAH	JAH	2/92
0	ISSUED FOR APPROVAL	DJC	3/91	JAH	JAH	3/91

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
SOUTH MAIN STREET
(MANHOLE NO. 744)-(MANHOLE NO. 747)
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 43 OF 57

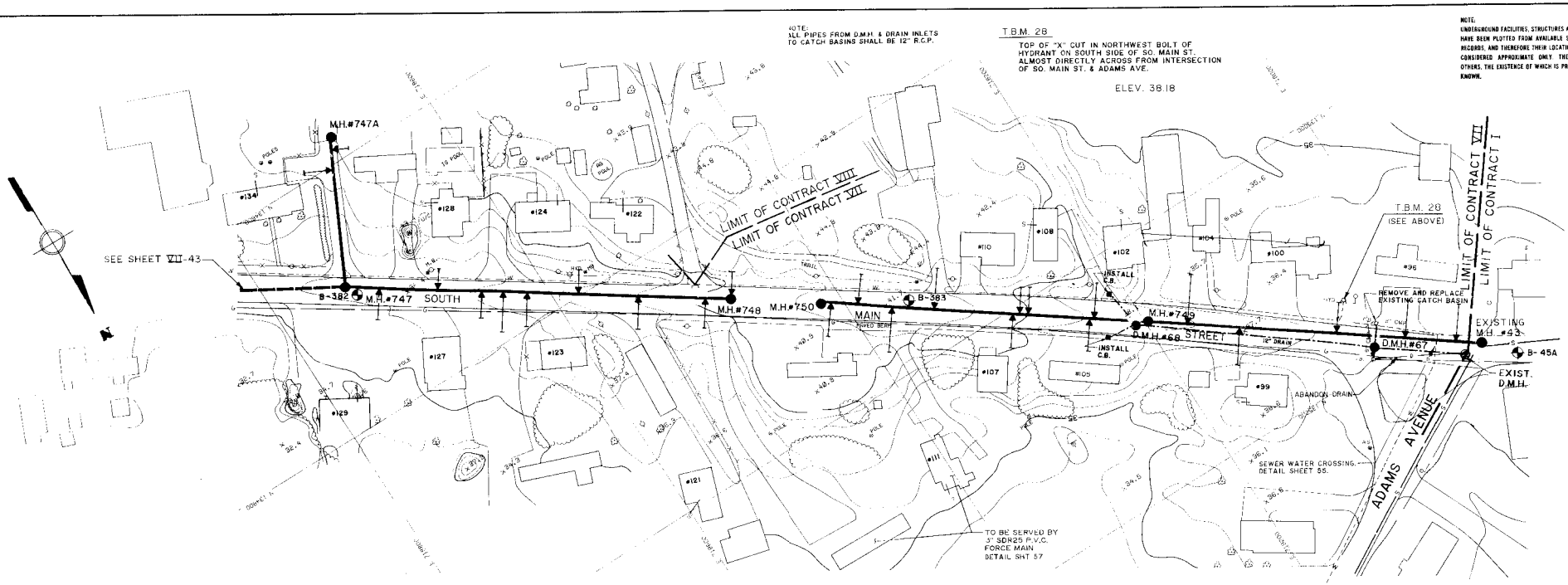
NOTE:
ALL PIPES FROM D.M.H. & DRAIN INLETS TO CATCH BASINS SHALL BE 12" R.C.P.

T.B.M. 28

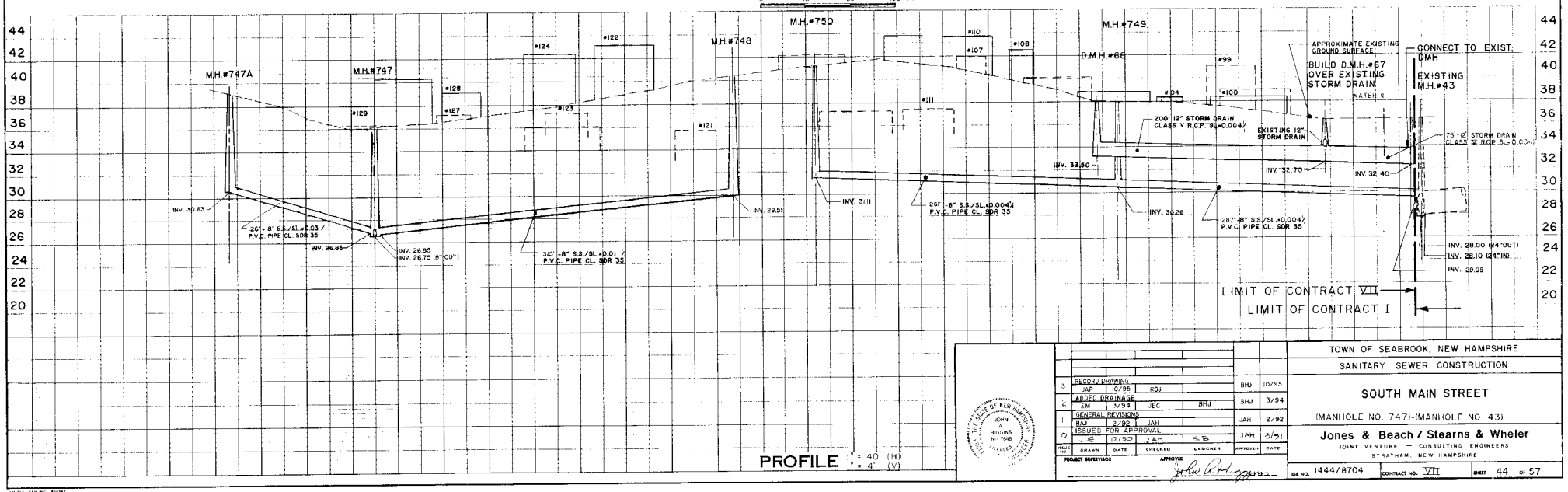
TOP OF "X" CUT IN NORTHWEST BOLT OF HYDRANT ON SOUTH SIDE OF SO. MAIN ST. ALMOST DIRECTLY ACROSS FROM INTERSECTION OF SO. MAIN ST. & ADAMS AVE.

ELEV. 38.18

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.



PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	JAP	10/95	RBJ		BHJ	10/95
2	ADDED DRAINAGE	EM	3/94	JEC	BHJ	BHJ	3/94
1	GENERAL REVISIONS	BAJ	2/92	JAH		JAH	2/92
0	ISSUED FOR APPROVAL	JDE	12/90	JAH	SB	JAH	3/91

PROJECT SUPERVISOR — APPROVED: John C. Higgins

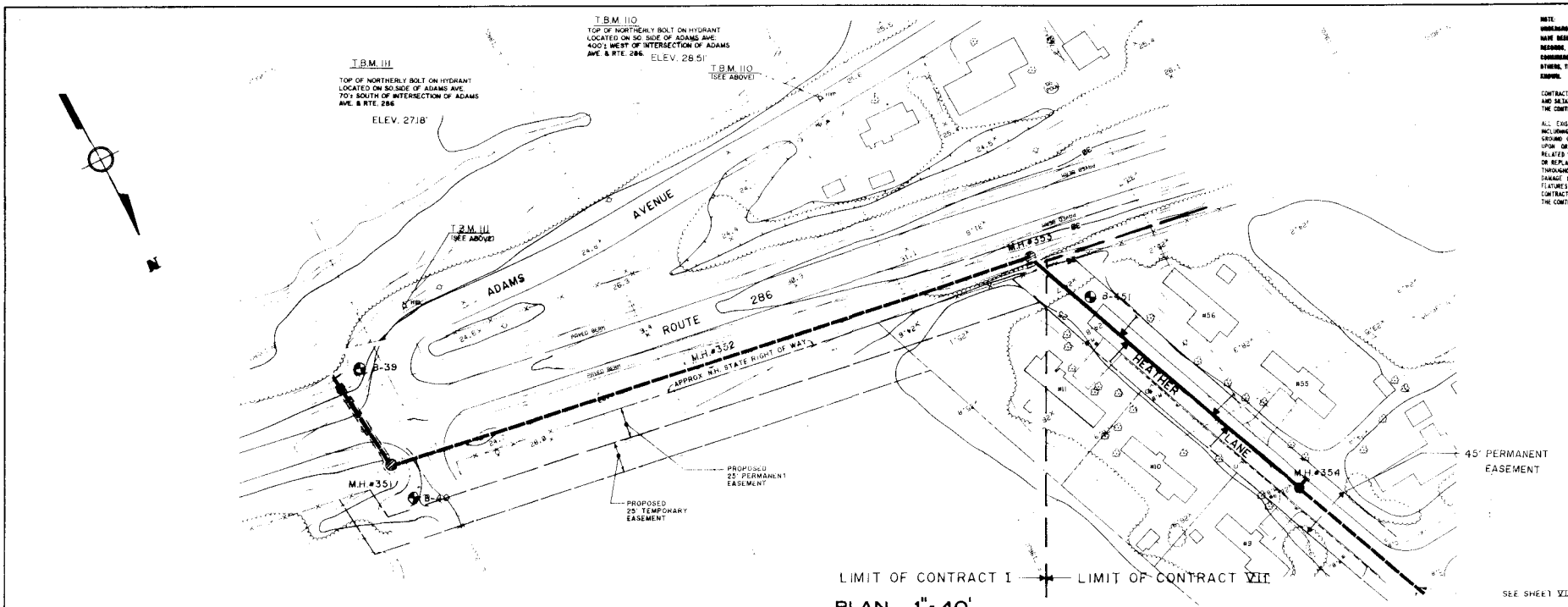
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

SOUTH MAIN STREET

(MANHOLE NO. 747)-(MANHOLE NO. 43)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 44 OF 57

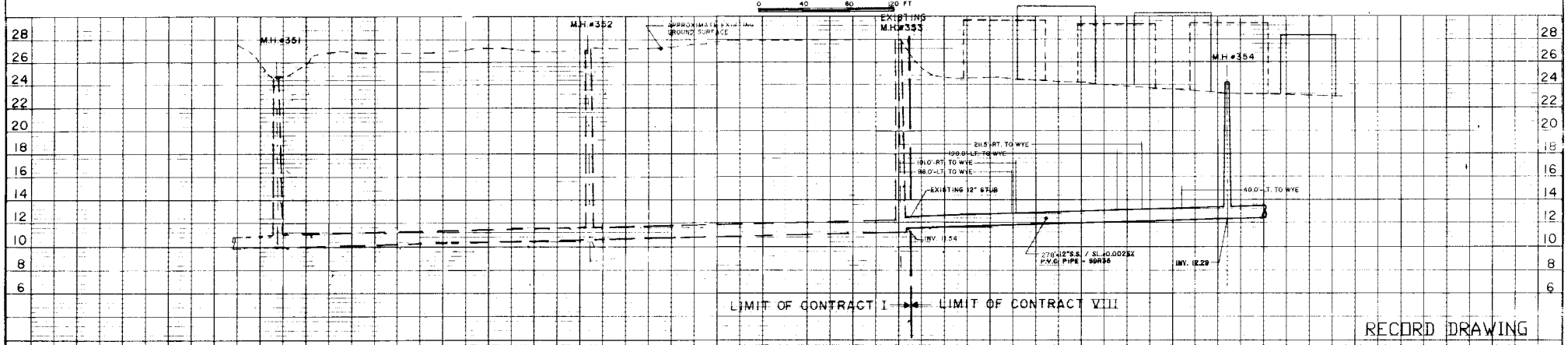

T.B.M. 110
TOP OF NORTHERLY BOLT ON HYDRANT LOCATED ON SO. SIDE OF ADAMS AVE. 400'± WEST OF INTERSECTION OF ADAMS AVE. & RTE. 286.
ELEV. 28.51
T.B.M. 111
TOP OF NORTHERLY BOLT ON HYDRANT LOCATED ON SO. SIDE OF ADAMS AVE. 70'± SOUTH OF INTERSECTION OF ADAMS AVE. & RTE. 286
ELEV. 27.18'
ADAMS AVENUE
ROUTE 286
HEATHER LANE
M.H. #351
M.H. #352
M.H. #353
M.H. #354
B-39
B-40
B-41
APPROX. N.H. STATE RIGHT OF WAY
PROPOSED 25' PERMANENT EASEMENT
PROPOSED 25' TEMPORARY EASEMENT
45' PERMANENT EASEMENT
LIMIT OF CONTRACT I
LIMIT OF CONTRACT VII
SEE SHEET VII-46

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

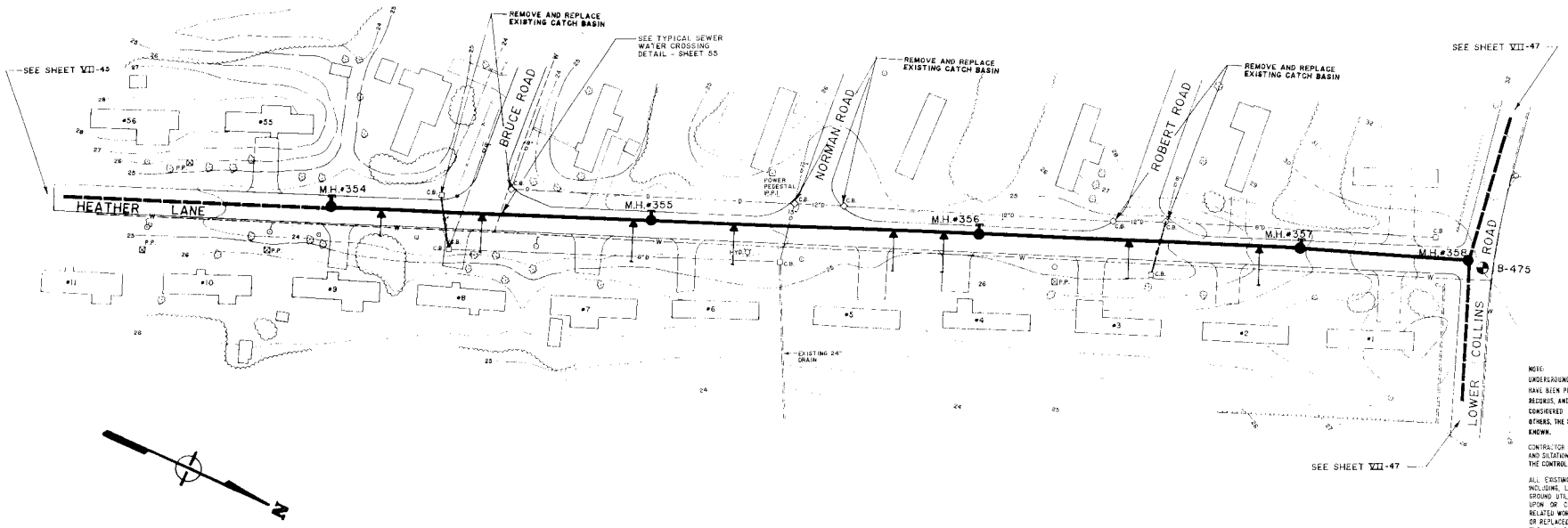
NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	SDC	9/95	WM		BHJ	9/95
1	GENERAL REVISION	EM	7/93	BHJ	JEC	BHJ	7/93
0	ISSUED FOR APPROVAL	AL./JOE	4/93	JAH	JOE	JAH	4/93

PROJECT SURVEYOR: BRADFORD JONES NO. 3311 REGISTERED PROFESSIONAL ENGINEER — THE STATE OF NEW HAMPSHIRE

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
ROUTE 286 - HEATHER LANE
(MANHOLE NO. 351)-(MANHOLE NO. 354)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 45 OF 57

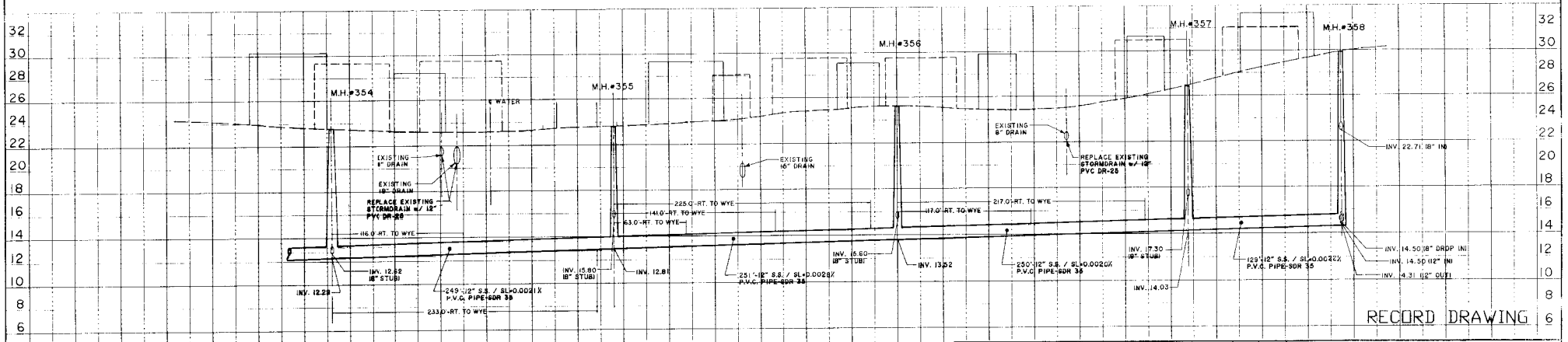


PLAN 1" = 40'

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



PROFILE 1" = 40' (H) 1" = 4' (V)

	RECORD DRAWING				BNJ	9/95
1	SDC	9/95	WM			
	ISSUED FOR APPROVAL					
0	SNB	2/93		SNB		
NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SURVEYOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

HEATHER LANE

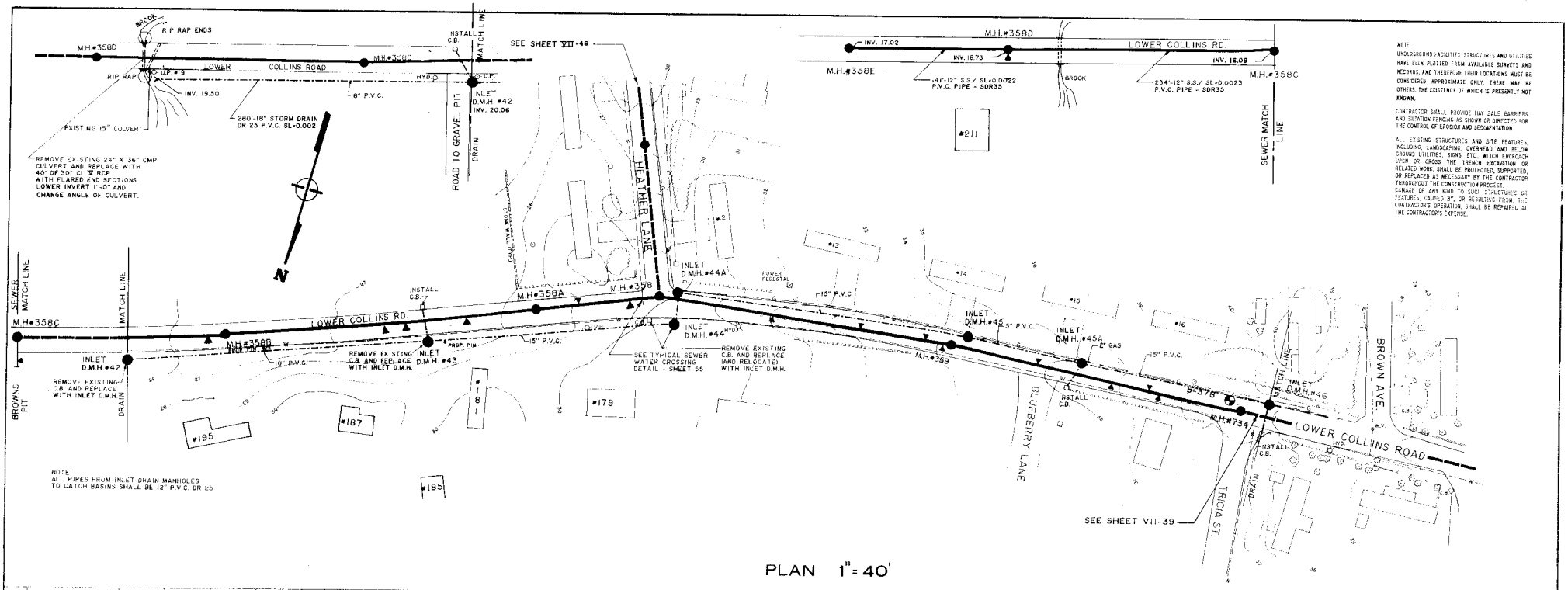
(MANHOLE NO. 354)-(MANHOLE NO. 358)

Jones & Beach / Stearns & Wheler

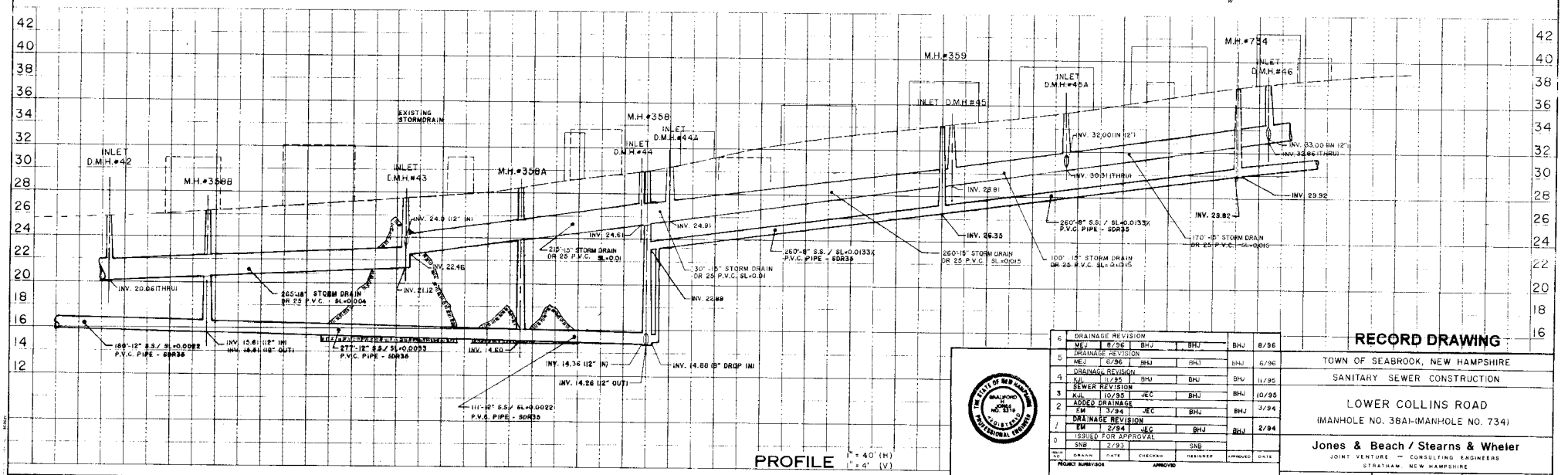
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 46 OF 57


BROOK
RIP RAP ENDS
M.H.#358D
LOWER COLLINS ROAD
M.H.#358C
M.H.#358E
INSTALL C.B.
MATCH LINE
SEE SHEET VII-46
RIP RAP
U.P. #19
INV. 19.50
18" P.V.C.
HYD.
INLET D.M.H. #42 INV. 20.06
280'-18" STORM DRAIN DR 25 P.V.C. SL=0.002
EXISTING 15" CULVERT
REMOVE EXISTING 24" X 36" CMP CULVERT AND REPLACE WITH 40' OF 30" CL V RCP WITH FLARED END SECTIONS. LOWER INVERT 1'-0" AND CHANGE ANGLE OF CULVERT.
ROAD TO GRAVEL PIT
DRAIN
INV. 17.02
INV. 16.73
14'-15" S.S./ SL=0.0022 P.V.C. PIPE - SDR35
BROOK
234'-12" S.S./ SL=0.0023 P.V.C. PIPE - SDR35
INV. 16.09
SEWER MATCH LINE
#211
HEATHER LANE
#12
#13
#14
#15
#16
INLET D.M.H.#44A
INLET D.M.H.#44
INLET D.M.H.#45
INLET D.M.H.#45A
2" GAS
15" P.V.C.
POWER PEDESTAL
M.H.#358
M.H.#358A
M.H.#358B
M.H.#359
M.H.#358C
INLET D.M.H.#42
INLET D.M.H.#43
PROP. P.I.N.
REMOVE EXISTING C.B. AND REPLACE WITH INLET D.M.H.
SEE TYPICAL SEWER WATER CROSSING DETAIL - SHEET 55
REMOVE EXISTING C.B. AND REPLACE (AND RELOCATE) WITH INLET D.M.H.
INSTALL C.B.
BROWNS PIT
#195
#187
#185
#179
#8
BLUEBERRY LANE
BROWN AVE.
INLET D.M.H.#46
M.H.#734
LOWER COLLINS ROAD
TRICIA ST.
SEE SHEET VII-39
NOTE: ALL PIPES FROM INLET DRAIN MANHOLES TO CATCH BASINS SHALL BE 12" P.V.C. DR 25
NOTE: UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION
ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

NO.	DRAINAGE REVISION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
6	DRAINAGE REVISION	MEJ	8/96	BHJ	BHJ	BHJ	8/96
5	DRAINAGE REVISION	MEJ	6/96	BHJ	BHJ	BHJ	6/96
4	DRAINAGE REVISION	KJL	11/95	BHJ	BHJ	BHJ	11/95
3	SEWER REVISION	KJL	10/95	JEC	BHJ	BHJ	10/95
2	ADDED DRAINAGE	EM	3/94	JEC	BHJ	BHJ	3/94
1	DRAINAGE REVISION	EM	2/94	JEC	BHJ	BHJ	2/94
0	ISSUED FOR APPROVAL	SNB	2/93		SNB		

PROJECT SURVEYOR — APPROVED

THE STATE OF NEW HAMPSHIRE — WALFORD — NO. 5216 — LICENSED — PROFESSIONAL ENGINEER

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

LOWER COLLINS ROAD

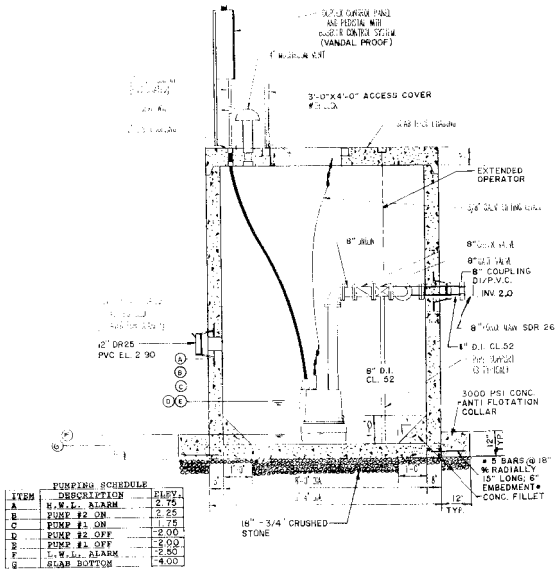
(MANHOLE NO. 38A)-(MANHOLE NO. 734)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 47 OF 57


3'-0"X4'-0" ACCESS COVER
EXTENDED OPERATOR
8" DIA
8" COUPLING DI/P.V.C.
INV. 2.0
8" PVC DIA SDR 26
12" DR25 PVC EL. 2.90
8" D.I. CL. 52
3000 PSI CONC. ANTI FLOTATION COLLAR
5 BARS @ 18" RADIALLY 15" LONG; 6" EMBEDMENT CONC. FILLET
18" - 3/4" CRUSHED STONE
TYP.

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	2.75
B	PUMP #2 ON	2.25
C	PUMP #1 ON	1.75
D	PUMP #2 OFF	-2.00
E	PUMP #1 OFF	-2.00
F	L.W.L. ALARM	-2.50
G	SCAB BOTTOM	-4.00

SECTION A-A
NO SCALE

RIVER ST. PUMP STATION DESIGN

CONDITIONS OF SERVICE

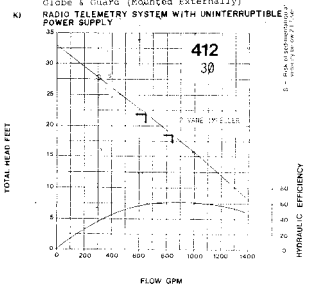
830 G.P.M. AT 18.5 ft. TDH & 650 G.P.M. AT 22.5 ft. TDH

PUMPING EQUIPMENT

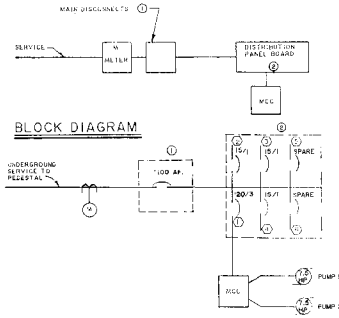
(2) - FLYGT CORP. SUBMERSIBLE 7-1/2 HP PUMPS, MOD.= CP3127-412
8" DISCHARGE CONNECTION w/ 8.35" IMPELLER @ 1750 RPM/ POWER 480 VOLT 3 PHASE / 60 HZ.

PUMP STATION CONTROL EQUIPMENT

A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Alarm Horn & Silencer
E) Pump High Temperature Protectors
F) Pump Running Lights & Elapsed Time Meters
G) Overload Resets
H) Spare Parts Normally Required Within First Year Of Operation
I) 115V, 1Ø, 60Hz, Grounded Duplex Receptacle
J) 115V Alarm Light in Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
K) RADIO TELEMETRY SYSTEM WITH UNINTERRUPTIBLE POWER SUPPLY



PUMP CURVE RIVER STREET DRAINAGE PUMP STATION

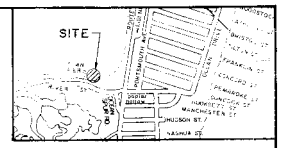


CIRCUITS

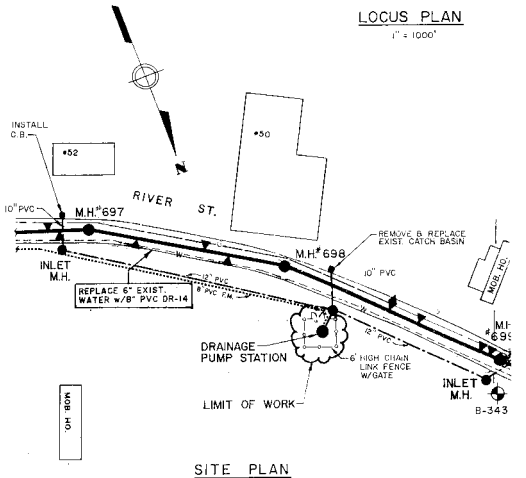
DESCRIPTION	AMPS	VOLTS	PHASE
(1) MOTOR CONTROL CENTER (EA. PUMP)	20	480	3
(2) ALARM LIGHTS	15	120	1
(3) BUBBLER LEVEL CONTROL	15	120	1
(4) WEATHERPROOF RECEPTACLE	15	120	1
(5) SPARE			
(6) SPARE			

RIVER STREET DRAINAGE PUMP STATION

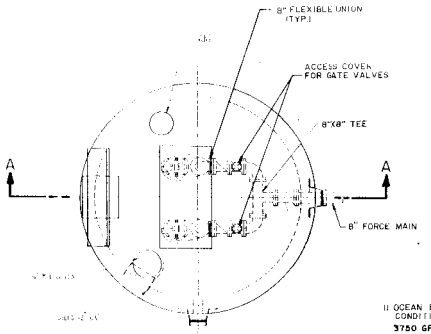
GENERAL NOTES
1. ALL EQUIPMENT TO BE NEMA-3R



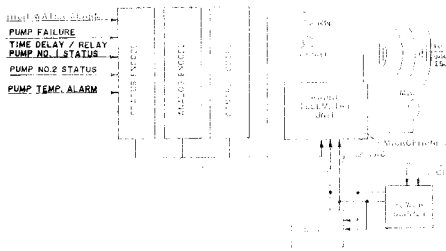
LOCUS PLAN
1" = 1000'



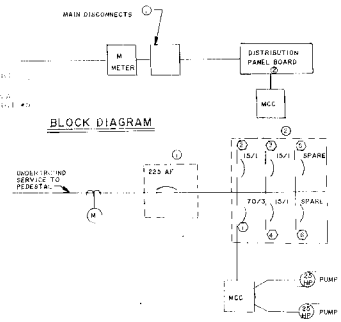
SITE PLAN
1" = 40'

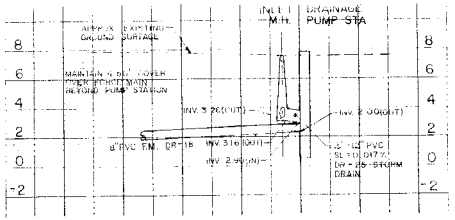


PLAN - PUMPING STATION
NO SCALE



REMOTE TRANSMITTER & RECEIVER
(BOTH PUMPING STATIONS)





PROFILE
1" = 40' (H)
1" = 4' (V)

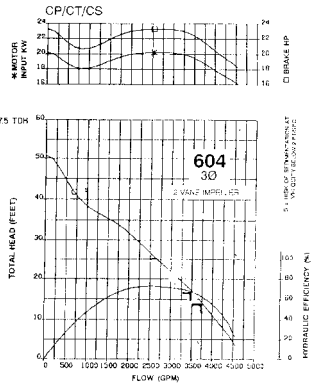
CIRCUITS

DESCRIPTION	AMPS	VOLTS	PHASE
(1) MOTOR CONTROL CENTER (EA. PUMP)	70	480	3
(2) ALARM LIGHTS	15	120	1
(3) BUBBLER LEVEL CONTROL	15	120	1
(4) WEATHERPROOF RECEPTACLE	15	120	1
(5) SPARE			
(6) SPARE			

OCEAN BLVD. DRAINAGE PUMP STATION

11 OCEAN BLVD. PUMP STATION
CONDITIONS OF SERVICE
3750 GPM AT 14.0 TDH & 3500 G.P.M AT 17.5 TDH

PUMPING EQUIPMENT
(2) FLYGT CORP. SUBMERSIBLE 25 HP. PUMPS MODEL: CP3170-604
12" DISCHARGE CONNECTION w/ 11.42 IMPELLER @ 1750 POWER 480 VOLT 3 PHASE /60HZ.



REFER TO SHEET 22

RECORD DRAWING

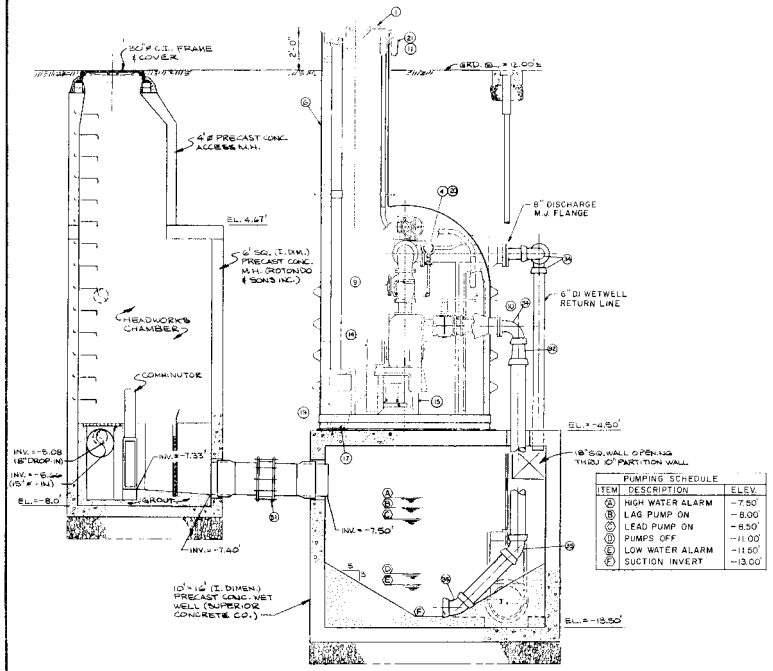
NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	ADDED OCEAN BLVD PUMP STATION	EM	6/94	JEC	BHJ	BHJ	6/94
0	ISSUED FOR APPROVAL	WM	4/91	JAH	RBJ	JAH	4/91

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
RIVER ST. & OCEAN BLVD. DRAINAGE PUMPING STATION
SITE PLAN & DETAILS

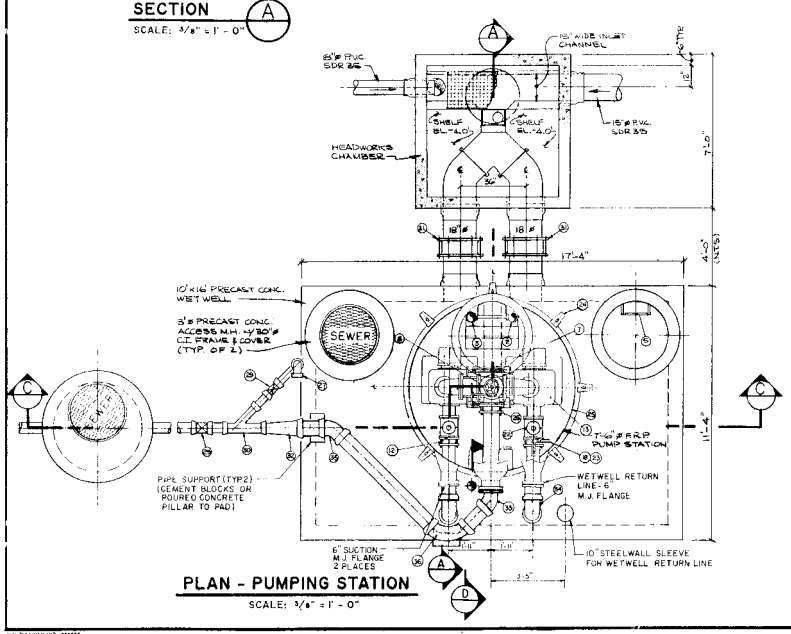
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VII SHEET 48 OF 57


36"ø C.I. FRAME & COVER
4'-8"ø PRECAST CONC. ACCESS M.H.
GRD. EL. = 12.00±
6" DISCHARGE M.J. FLANGE
6'ø SQ. (I. DIM.) PRECAST CONC. M.H. (ROTONDO (SONS INC.)
6" DI WETWELL RETURN LINE
HEADWORKS CHAMBER
COMMUTATOR
EL. 4.67'
EL. = -4.50'
18"SQ. WALL OPENING THRU 12" PARTITION WALL
INV. = -5.08 (18" DROP IN)
INV. = -6.58 (15"ø IN.)
INV. = -7.33'
EL. = -8.0'
GROUT
INV. = -7.40'
INV. = -7.50'
10'-1½" (I. DIMEN.) PRECAST CONC. WET WELL (SUPERIOR CONCRETE CO.)
EL. = -13.50'

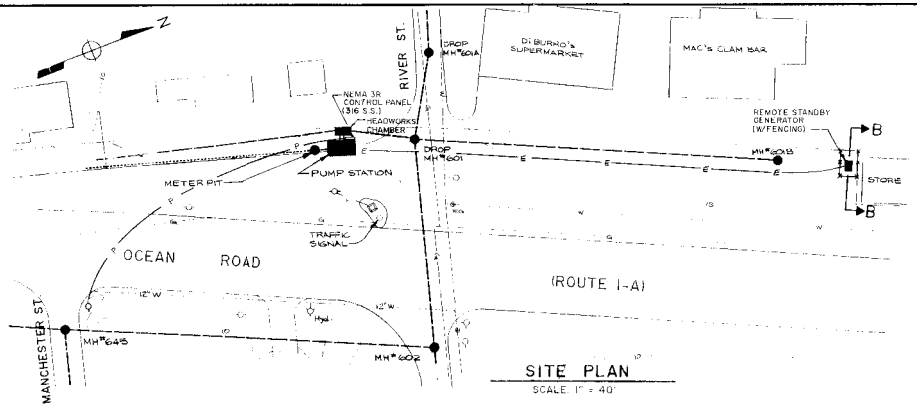
PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	HIGH WATER ALARM	-7.50'
B	LAG PUMP ON	-8.00'
C	LEAD PUMP ON	-8.50'
D	PUMPS OFF	-11.00'
E	LOW WATER ALARM	-11.50'
F	SUCTION INVERT	-13.00'

SECTION A
SCALE: 3/8" = 1'-0"

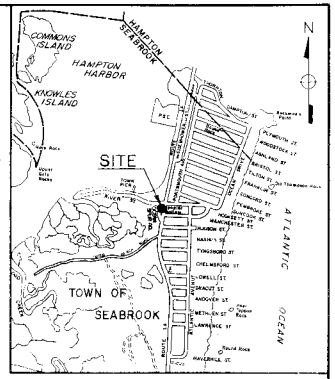

15" WIDE INLET CHANNEL
6"ø PVC SDR 26
SHELF EL. 4.0
15"ø PVC SDR 35
HEADWORKS CHAMBER
7'-0"
18"ø
17'-4"
4'-0" (NOM.)
10'x16' PRECAST CONC. WET WELL
3'ø PRECAST CONC. ACCESS M.H. w/30"ø C.I. FRAME & COVER (TYP. OF 2)
SEWER
7'-6"ø F.R.P. PUMP STATION
11'-4"
PIPE SUPPORT (TYP.2) (CEMENT BLOCKS OR POURED CONCRETE PILLAR TO PAD)
WETWELL RETURN LINE-6" M.J. FLANGE
6" SUCTION - M.J. FLANGE 2 PLACES
10" STEEL WALL SLEEVE FOR WETWELL RETURN LINE
5'-5"

PLAN - PUMPING STATION
SCALE: 3/8" = 1'-0"

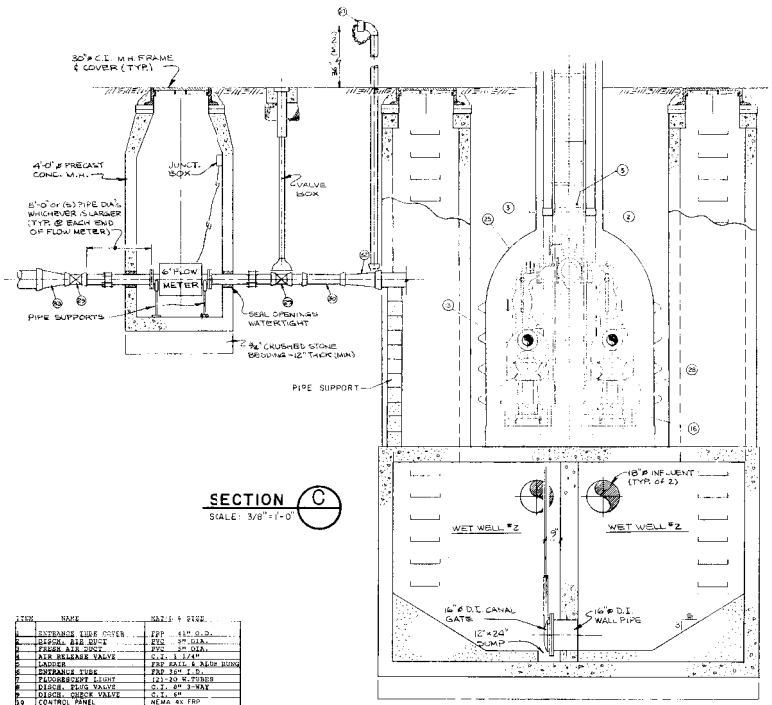
ITEM	NAME	SIZE & TYPE
1	ENTRANCE TUBE COVER	FRP 48" O.D.
2	DISPOSAL BID DOME	PVC 24" DIA.
3	FRESH AIR VENT	PVC 24" DIA.
4	AIR RELEASE VALVE	C.I. 1 1/4"
5	LADDER	FRP RAIL & ALUM RUNG
6	ENTRANCE TUBE	FRP 30" I.D.
7	FLUORESCENT LIGHT	(2)-20 W. TUBES
8	DISCH. PLUG VALVE	C.I. 6" 3-WAY
9	DISCH. CHECK VALVE	C.I. 6"
10	CONTROL PANEL	NEMA 4X FRP
11	ALARM CONDUIT	PVC 3/4"
12	FLANGE ADAPTER	C.I. 6"
13	PUMP	C.I.H. (6A)-B
14	BELT GUARD	FRP
15	PUMP & MOTOR BASE	STEEL
16	MOTOR	30 H.P. - 1750 RPM
17	SUMP PUMP	2" SUBMERSIBLE
18	SUMP PUMP DISCHARGE	PVC 1 1/4"
19	BLOWER & DEHUMID. HOUSING	FRP
20	AIR RELEASE DISCHARGE	PVC 1 1/4" FLEX.
21	ENTRANCE CONDUIT	PVC
22	SUCTION FLAP VALVE	C.I. 6"
23	RUBBER LINE	3/8" M.P.T. CONN.
24	HOLD DOWN BRACKET	SS 316
25	STATION SHELL	F.R.P. 7'-6" I.D.
26	FLANGE ADAPTER	C.I. 8"
27	EMERGENCY PUMP CONN.	STL. 3/4"ø W/CAMLOCK FITT. ABOVE GROUND
28	DRIP SHIELD	FRP
29	GATE VALVE & BOX	C.I. 6" M.J.
30	ELEVATOR	C.I. 6"x 6"x 6" M.J.
31	DRESSER PIPE COUPLING	STL. 10"ø SIZED FOR PIPE
32	REDUCER	C.I. 8"x 6" M.J.
33	REDUCER	C.I. 10"x 6" M.J.
34	45° BEND	C.I. 6" M.J.
35	45° BEND	C.I. 8" M.J.
36	90° BEND	C.I. 8" M.J.



SITE PLAN
SCALE: 1" = 40'



LOCUS PLAN
SCALE: 1" = 800'±


30"ø C.I. M.H. FRAME & COVER (TYP.)
4'-0"ø PRECAST CONC. M.H.
JUNCT. BOX
VALVE BOX
6'-0" or (6) PIPE DIA'S WHICHEVER IS LARGER (TYP. @ EACH END OF FLOW METER)
6" FLOW METER
PIPE SUPPORTS
SEAL OPENINGS WATERTIGHT
2¾" CRUSHED STONE BEDDING - 12" THICK (MIN.)
PIPE SUPPORT
WET WELL #2
WET WELL #2
18"ø INFLUENT (TYP. OF 2)
16"ø D.I. CANAL GATE
16"ø D.I. WALL PIPE
12"x24" SUMP

SECTION C
SCALE: 3/8" = 1'-0"

PUMP STATION DESIGN

CONDITIONS OF SERVICE:
1000 G.P.M. @ 36.66' TDH

PUMPING EQUIPMENT:
(2) GORMAN RUPP 20" [illegible] T6A3-B
6" x 6" SELF PRIMING CENTRIFUGAL LIFT PUMPS
@ 12-3/8" IMPELLER (1180 R.P.M.)

PUMP STATION CONTROL EQUIPMENT:
- A) High Water & Low Water Alarm Circuit
- B) Power Failure Alarm Circuit
- C) Air Doubler System w/ 3/4 HP Air Compressors
- D) Air Flow Hotometer
- E) Alarm Horn & Silencer
- F) [illegible]
- G) Pump High Temperature Protectors
- H) Pump Running Lights & Elapsed Time Meters
- I) Overload Resets
- J) 3500 Watt Stat[illegible]
- K) [illegible]
- L) Pump Enclosure Exhaust Blower w/ 30 Air Changes/Hr.
- M) 3 KVA Stepdown Transformer.
- N) [illegible]
- O) [illegible]
- P) Radio Receiver, Speed[illegible] Interrupter Lock Supply
- Q) [illegible]
- R) 115V Alarm Light (e Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally).

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	GENERAL REVISIONS	WX	12/94	JEC	BHJ	BHJ	12/94
1	REVISE DIA. EMERGENCY PUMP CONN.	DT	9/94	JEC	BHJ	BHJ	9/94
0	ISSUED FOR APPROVAL	JCB	4/91	JAH	RBJ	JAH	4/91

PROJECT SURVEYOR: [illegible] APPROVED: John A. Higgins

TOWN OF SEABROOK, NEW HAMPSHIRE

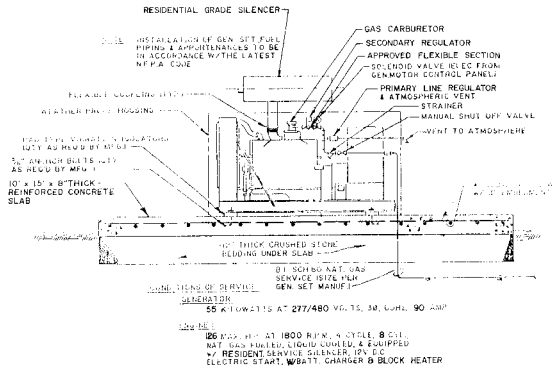
OCEAN RD. (ROUTE 1A) SEWAGE PUMP STATION

SITE PLAN & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

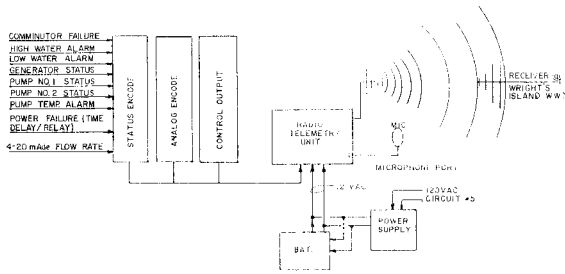
JOB NO. 1444/8704 CONTRACT NO. VII SHEET 49 OF 57

P.W. SULLIVAN INC. 509887

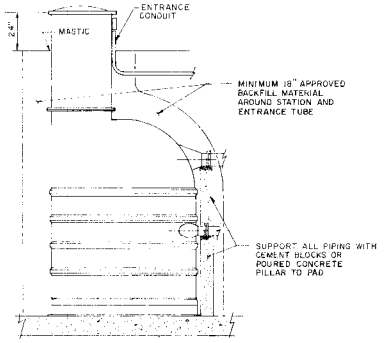

RESIDENTIAL GRADE SILENCER
GAS CARBURETOR
SECONDARY REGULATOR
APPROVED FLEXIBLE SECTION
SOLENOID VALVE (ELEC FROM GENMOTOR CONTROL PANEL)
PRIMARY LINE REGULATOR & ATMOSPHERIC VENT
STRAINER
MANUAL SHUT OFF VALVE
VENT TO ATMOSPHERE
10'-0" x 15'-0" x 8"THICK REINFORCED CONCRETE SLAB
6" THICK CRUSHED STONE BEDDING UNDER SLAB
GENERATOR
55 KILOWATTS AT 277/480 VOLTS, 3Ø, 60HZ, 90 AMP

SECTION B-B

NO SCALE



REMOTE TRANSMITTER/RECEIVER


ENTRANCE CONDUIT
MASTIC
24"
MINIMUM 18" APPROVED BACKFILL MATERIAL AROUND STATION AND ENTRANCE TUBE
SUPPORT ALL PIPING WITH CEMENT BLOCKS OR POURED CONCRETE PILLAR TO PAD

BACKFILL MATERIAL AND PIPING SUPPORTS

NO SCALE

BACKFILL INSTALLATION REQUIREMENTS:

1. MEA GRAVEL TYPE MATERIAL.
   USE NATURALLY-ROUNDED AGGREGATE WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 3/4" DIAMETER CLEAN AND FREE FLOWING.

2. STONE OR GRAVEL CRUSHINGS.
   AS AN ALTERNATE ANGULAR MATERIAL WITH PARTICLE SIZE NOT LESS THAN 1/8" OR MORE THAN 1/2" DIAMETER CLEAN AND FREE FLOWING. THIS MATERIAL MUST MEET ASTM C-33 REQUIREMENTS FOR QUALITY AND SOUNDNESS.

3. W/ SHED SAND.
   ADD WASHED SAND BACKFILL IN UNIFORM LAYERS AROUND STATION APPROXIMATELY 12 TO 18 INCHES DEEP. COMPACT EACH LAYER WITH MECHANICAL COMPACTOR TO 95% MODIFIED PROCTOR DENSITY. DO NOT USE A METAL TAMPING ROD.

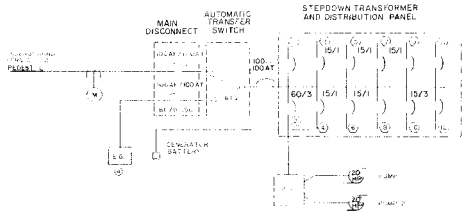
CAUTION: BACKFILL MATERIAL MUST BE FREE OF ROCKS, DEBRIS AND FROZEN SECTIONS.

CAUTION: DO NOT USE SHALE, CLAY, SLAG, CINDERS, LOAM, SILTS, STONE SCREENINGS, STONE DUST, SHELLS OR SOFT LIMESTONE.

IF ANOTHER MATERIAL IS USED TO FILL TO GRADE LEVEL, A POLYETHYLENE FILM OR SUITABLE SUBSTITUTE MUST BE USED TO COVER THE BACKFILL MATERIAL LISTED ABOVE.

NOTES

Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.



CIRCUITS

NO.	DESCRIPTION	AMPS	VOLTS	PHASE
(1)	SPARE			
(2)	PUMP STATION	60	480	3
(3)	RECEPTACLE w/GROUND FAULT	15	120	1
(4)	GEN. SET BATTERY CHARGER	15	120	1
(5)	ALARM LIGHTS	15	120	1
(6)	RADIO TELEMETRY	15	120	1
(7)	FLOW METER	5	120	1
(8)	SPARE			
(9)	SPARE			
(10)	COMMINUTOR	15	480	3
(11)	SPARE			
(12)	SPARE			

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	ADDED BACKFILL MATERIAL & PIPING SUPPORT				BHJ	12/94
	WK	12/94	JEC	BHJ		
1	GENERAL REVISIONS				BHJ	9/94
	DT	9/94	JEC	BHJ		
0	ISSUED FOR APPROVAL				JAM	4/91
	KC	4/91	JAM	JAM		

PROJECT SUPERVISOR — APPROVED: John A. Higgins

THE STATE OF NEW HAMPSHIRE — JOHN A. HIGGINS — No. 7548 — LICENSED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

OCEAN RD. (ROUTE 1A) SEWAGE PUMP STATION

DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VII | SHEET 50 OF 57

H.N. SULLIVAN, NC 808987

SANITARY SEWER CONSTRUCTION

SEABROOK, NEW HAMPSHIRE

CONTRACT NO. 8

1993

JONES & BEACH/STEARNS & WHEELER

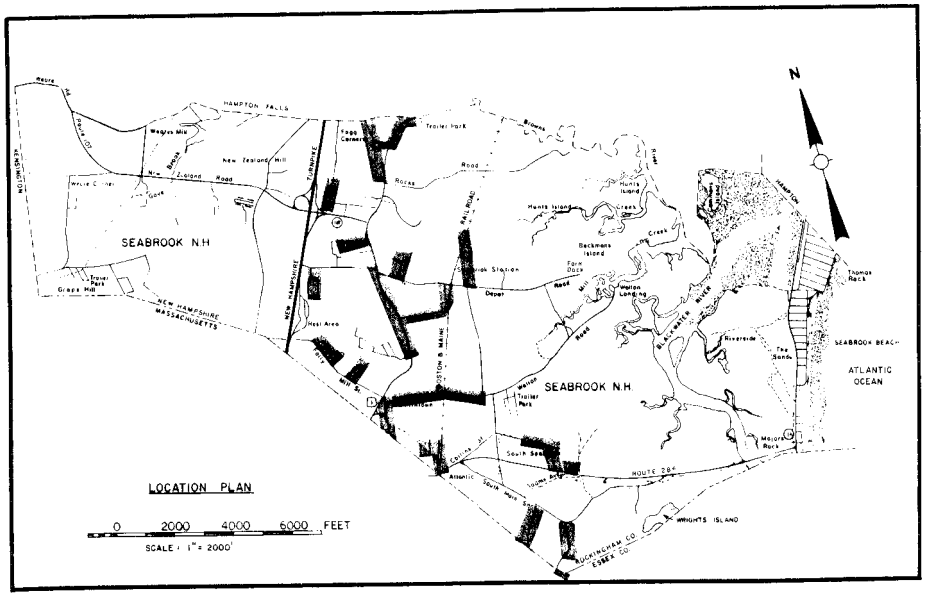
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

ABBREVIATIONS

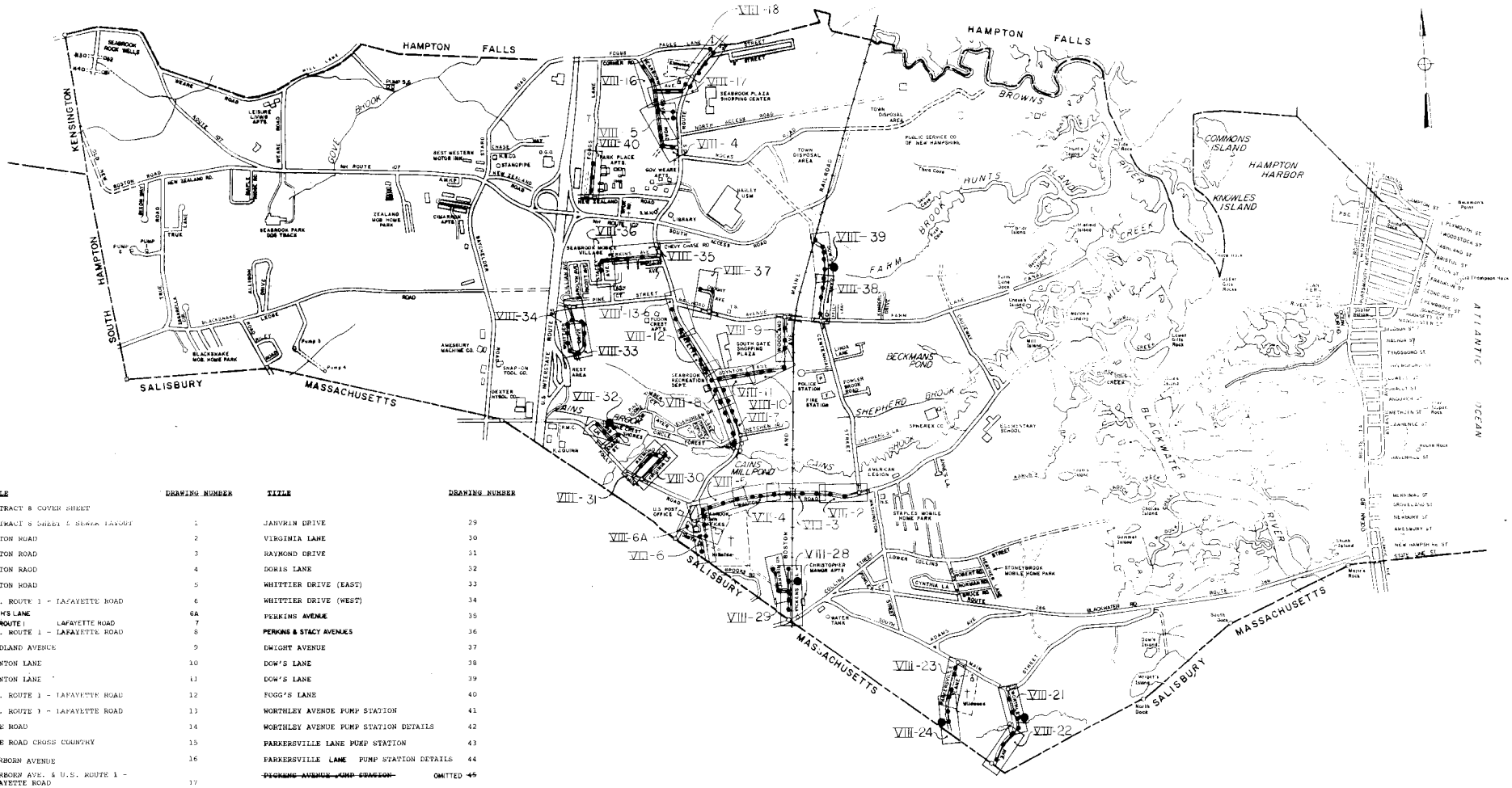
BENCHMARK	BM
BITUMINOUS	BIT
CAST IRON PIPE	CIP
CATCH BASIN	CB
CONCRETE	CONC
CORR. METAL PIPE	CMP
DRAIN	D
ELEVATION	EL
FENCE	FC
FIRST FLOOR	FF
FORCE MAIN	FM
GAS MAIN	G
GUIDE POST	GP
HYDRANT	HYD
INVERT	INV
IRON PIN	IP
LAMP POLE	LP
MANHOLE	MH
MONUMENT	MON
PERCENT GRADE	%
PERM. EASEMENT	PE
RIGHT OF WAY	ROW
SEWER	S
STONE	ST
SEWER MANHOLE	SMH
TEMP. EASEMENT	TE
WATER	W
WOOD	WD
WOVEN WIRE	WW
PROPERTY LINE	P
GRAVEL	GRAV

SELECTMEN
ELIZABETH A. THIBODEAU CHAIRPERSON
ASA H. KNOWLES JR.
BURWELL PIKE
TOWN MANAGER E. RUSSELL BAILEY



LEGEND

PROPOSED SANITARY SEWER WITH LATERAL	
EXISTING SANITARY SEWER WITH LATERAL	
SANITARY SEWER WITH PROFILE ON ANOTHER SHEET	
FORCE MAIN	
PUMP STATION (PROPOSED/EXISTING)	P.S. / P.S.
OCEAN OUTFALL WITH STATIONING	2'00
MANHOLE (PROPOSED/EXISTING)	M.H. / M.H.
CATCH BASIN (PROPOSED/EXISTING)	C.B. / C.B.
CULVERT	12"C.M.P.
HYDRANT	HYD
WATER MAIN	W
WATER VALVE/WATER SERVICE	W.V. W.S.
GAS MAIN	G
GAS VALVE/GAS SERVICE	G.V. G.S.
UNDERGROUND TELEPHONE/ELECTRICAL	T / E
STREAM/BROOK	
POND/WET AREA	
RIVER	
WOODS AND/OR BRUSH LINE	
APPROXIMATE TOWN/STATE LINE	
APPROXIMATE RIGHT-OF-WAY LINE	
EXISTING CONTOUR	50
PROPOSED CONTOUR	50
LEDGE OUTCROP	
RETAINING WALL	
GUARD RAIL	
STONE WALL	
FENCE	
CONIFEROUS/DECIDUOUS TREES	
SHRUBS OR BUSH	
HOUSE OR BUILDING	
HOUSE NUMBER	49
HOUSE WITH SEWER SERVICE	S
UTILITY POLE	
LAMP POLE	L.P.
MAILBOX	M.B.
SIGN	
BASELINE CONTROL POINT	M-1
PIPE INSULATION	
FABRIC FENCE (SILTATION CONTROL)	



TITLE	DRAWING NUMBER
CONTRACT 8 COVER SHEET	
CONTRACT 8 SHEET & SEWER LAYOUT	1
WALTON ROAD	2
WALTON ROAD	3
WALTON ROAD	4
WALTON ROAD	5
U.S. ROUTE 1 - LAFAYETTE ROAD	6
SMITH'S LANE	6A
U.S. ROUTE 1 - LAFAYETTE ROAD	7
U.S. ROUTE 1 - LAFAYETTE ROAD	8
WOODLAND AVENUE	9
BOYNTON LANE	10
BOYNTON LANE	11
U.S. ROUTE 1 - LAFAYETTE ROAD	12
U.S. ROUTE 1 - LAFAYETTE ROAD	13
GOVE ROAD	14
GOVE ROAD CROSS COUNTRY	15
DEARBORN AVENUE	16
DEARBORN AVE. & U.S. ROUTE 1 - LAFAYETTE ROAD	17
U.S. ROUTE 1 - LAFAYETTE ROAD	18
~~M&M STREET PUMP STATION DETAIL~~ OMITTED	~~19~~
~~M&M DUPLEX PUMP STATION DETAIL~~ OMITTED	~~20~~
WORTHLEY AVENUE	21
WORTHLEY AVENUE	22
PARKERSVILLE LANE	23
PARKERSVILLE LANE	24
~~ROUTE 286 & HEATHER LANE~~ OMITTED	~~25~~
~~HEATHER LANE~~ OMITTED	~~26~~
~~LOWER COLLINS ROAD~~ OMITTED	~~27~~
PICKENS AVENUE	28

TITLE	DRAWING NUMBER
JANVRIN DRIVE	29
VIRGINIA LANE	30
RAYMOND DRIVE	31
DORIS LANE	32
WHITTIER DRIVE (EAST)	33
WHITTIER DRIVE (WEST)	34
PERKINS AVENUE	35
PERKINS & STACY AVENUES	36
DWIGHT AVENUE	37
DOW'S LANE	38
DOW'S LANE	39
FOGG'S LANE	40
WORTHLEY AVENUE PUMP STATION	41
WORTHLEY AVENUE PUMP STATION DETAILS	42
PARKERSVILLE LANE PUMP STATION	43
PARKERSVILLE LANE PUMP STATION DETAILS	44
~~PICKENS AVENUE PUMP STATION~~ OMITTED	~~45~~
~~PICKENS AVENUE PUMP STATION DETAILS~~ OMITTED	~~46~~
PINECREST SHORES PUMP STATION	47
PINECREST SHORES PUMP STATION DETAILS	48
DOW'S LANE PUMP STATION	49
DOW'S LANE PUMP STATION DETAILS	50
PUMP STATION BUILDING	50A
EROSION CONTROL DETAILS	51
STANDARD MANHOLE DETAIL 1 OF 2	52
STANDARD MANHOLE DETAIL 2 OF 2	53
STANDARD TRENCH SECTIONS	54
MISCELLANEOUS DETAILS	55
SLEEVE AND JACKING CROSSING DETAILS	56
HOUSE SERVICES DETAILS	57

ISSUE NO.	DRAWN	DATE	CHECKED	DES'D-CHK'D	APPROVED	DATE
	RELOCATE PUMP STATION					
	JAP	1/94				
	ISSUED FOR APPROVAL					
0	WM	8/92	JAH	WM	BHJ	8/92

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

CONTRACT # 8

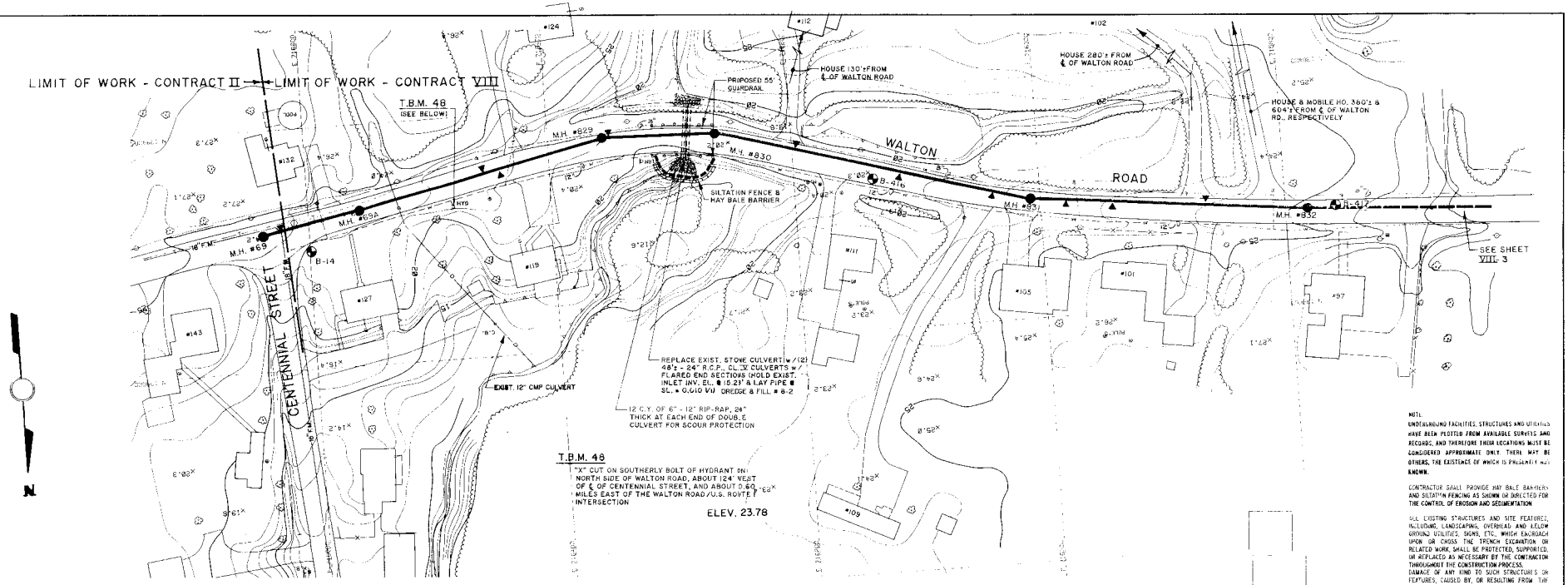
SHEET & SEWER LAYOUT

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VIII | SHEET 1 OF 57


LIMIT OF WORK - CONTRACT II
LIMIT OF WORK - CONTRACT VIII
T.B.M. 48
(SEE BELOW)
PROPOSED 55' GUARDRAIL
HOUSE 130'± FROM ℄ OF WALTON ROAD
HOUSE 280'± FROM ℄ OF WALTON ROAD
HOUSE & MOBILE HO. 360'± & 604'± FROM ℄ OF WALTON RD., RESPECTIVELY
WALTON ROAD
M.H. #829
M.H. #830
M.H. #831
M.H. #832
M.H. #69
M.H. #69A
SILTATION FENCE & HAY BALE BARRIER
CENTENNIAL STREET
EXIST. 12" CMP CULVERT
REPLACE EXIST. STONE CULVERT w/ (2) 48"± - 24" R.C.P., CL. V CULVERTS w/ FLARED END SECTIONS (HOLD EXIST. INLET INV. EL. @ 15.23') & LAY PIPE @ SL. = 0.010 V/V, DREDGE & FILL @ 8-2
12 C.Y. OF 6" - 12" RIP-RAP, 24" THICK AT EACH END OF DOUBLE CULVERT FOR SCOUR PROTECTION
T.B.M. 48
"X" CUT ON SOUTHERLY BOLT OF HYDRANT ON NORTH SIDE OF WALTON ROAD, ABOUT 124' WEST OF ℄ OF CENTENNIAL STREET, AND ABOUT 0.60 MILES EAST OF THE WALTON ROAD / U.S. ROUTE 1 INTERSECTION
ELEV. 23.78
SEE SHEET VIII - 3
N

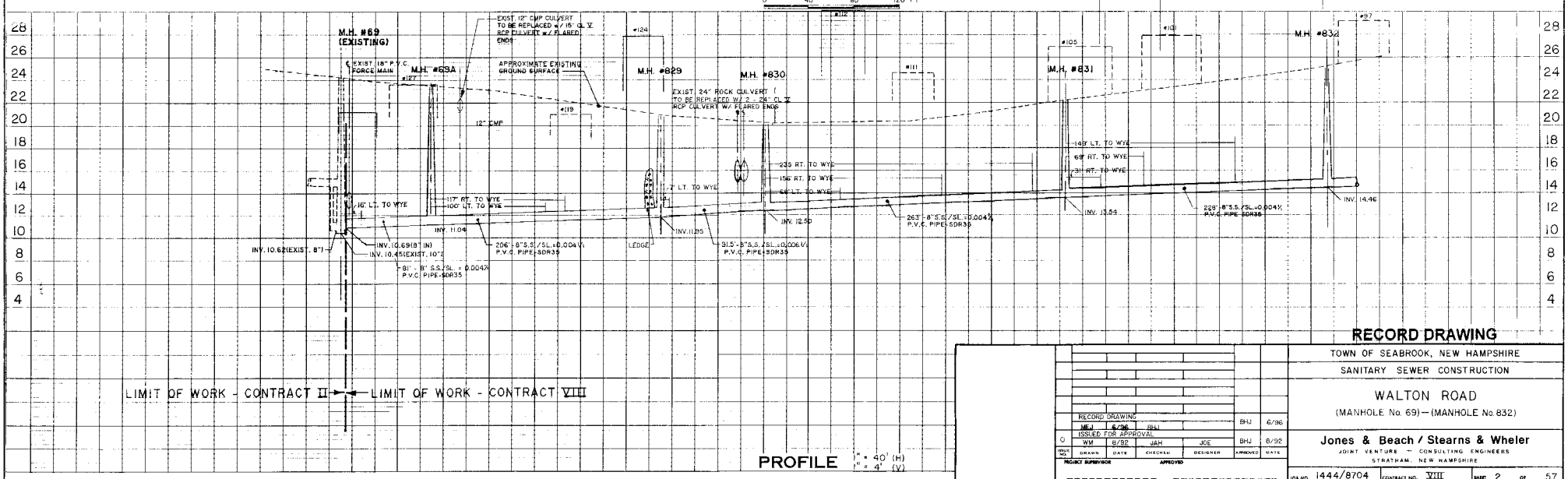
PLAN 1" = 40'

0 40 80 120 FT

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.


M.H. #69 (EXISTING)
EXIST. 18" P.V.C. FORCE MAIN
M.H. #69A
EXIST. 12" CMP CULVERT TO BE REPLACED w/ 15" CL. V RCP CULVERT w/ FLARED ENDS
APPROXIMATE EXISTING GROUND SURFACE
M.H. #829
M.H. #830
M.H. #831
M.H. #832
EXIST. 24" ROCK CULVERT TO BE REPLACED W/ 2 - 24" CL. V RCP CULVERT W/ FLARED ENDS
12" CMP
16' LT. TO WYE
117' RT. TO WYE
100' LT. TO WYE
7' LT. TO WYE
235' RT. TO WYE
156' RT. TO WYE
56' LT. TO WYE
148' LT. TO WYE
69' RT. TO WYE
31' RT. TO WYE
INV. 10.62 (EXIST., 8")
(INV. 10.69 (8" IN)
INV. 10.45 (EXIST. 10")
81' - 8" S.S./SL. = 0.004 V/V P.V.C. PIPE-SDR35
206'± - 8" S.S./SL. = 0.004 V/V P.V.C. PIPE-SDR35
INV. 11.04
LEDGE
INV. 11.25
INV. 12.50
91.5'± - 8" S.S./SL. = 0.006 V/V P.V.C. PIPE-SDR35
263'± - 8" S.S.E./SL. = 0.004 V/V P.V.C. PIPE-SDR35
INV. 13.54
228'± - 8" S.S./SL. = 0.004 V/V P.V.C. PIPE-SDR35
INV. 14.46
LIMIT OF WORK - CONTRACT II
LIMIT OF WORK - CONTRACT VIII

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WALTON ROAD

(MANHOLE No. 69) — (MANHOLE No. 832)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
					BHJ	6/96
	MEJ	6/96	BHJ			
	ISSUED FOR APPROVAL					
0	WM	8/92	JAH	JOE	BHJ	8/92

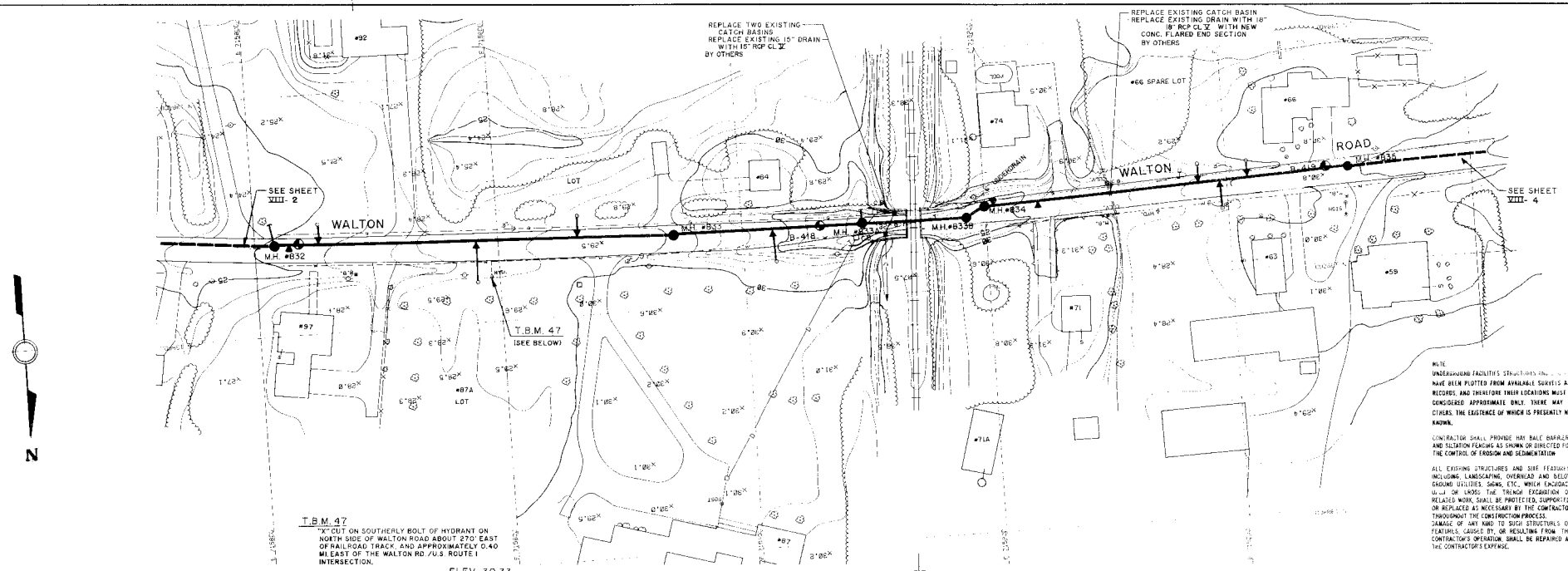
PROJECT SUPERVISOR — APPROVED

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

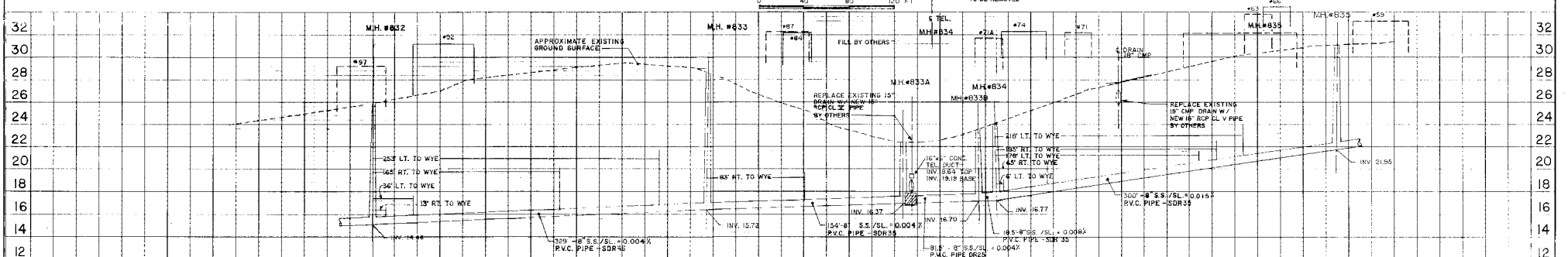
JOB NO. 1444/8704 | CONTRACT NO. VIII | SHEET 2 OF 57


REPLACE TWO EXISTING CATCH BASINS
REPLACE EXISTING 15" DRAIN WITH 15" RCP CL V
BY OTHERS
REPLACE EXISTING CATCH BASIN
REPLACE EXISTING DRAIN WITH 18"
18" RCP CL V WITH NEW
CONC. FLARED END SECTION
BY OTHERS
#66 SPARE LOT
WALTON
ROAD
SEE SHEET VIII- 2
SEE SHEET VIII- 4
M.H. #832
M.H. #833
M.H. #833A
M.H. #834
M.H. #835
B-418
T.B.M. 47
(SEE BELOW)
LOT
N
T.B.M. 47
"X" CUT ON SOUTHERLY BOLT OF HYDRANT ON NORTH SIDE OF WALTON ROAD ABOUT 270' EAST OF RAILROAD TRACK AND APPROXIMATELY 0.40 MI. EAST OF THE WALTON RD. /U.S. ROUTE 1 INTERSECTION.
ELEV. 30.33
NOTE
UNDERGROUND FACILITIES STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION
ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'

0 40 80 120 FT

RAILROAD BRIDGE TO BE REMOVED



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WALTON ROAD

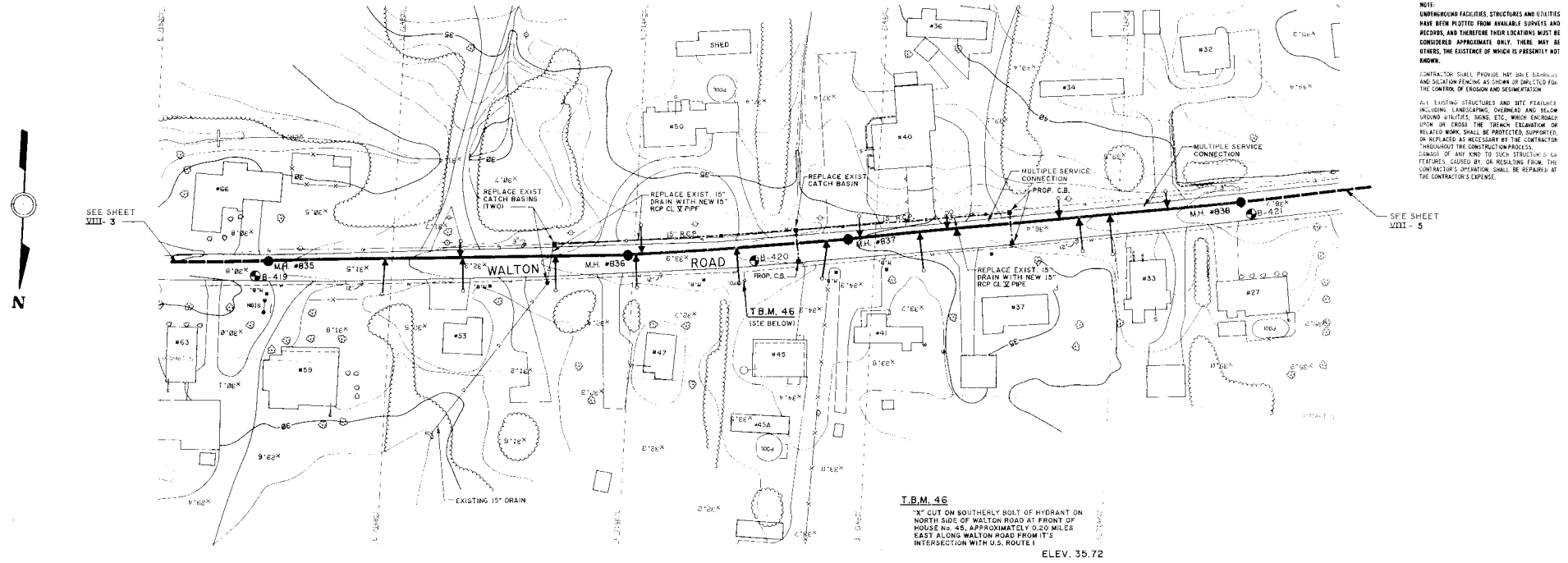
(MANHOLE No. 832)-(MANHOLE No. 835)

2	RECORD DRAWING	MCJ	6/96	BHJ		BHJ	6/96
1	REVISE PROFILE-M.H.LOCATIONS	WK	6/95	BHJ	MJP	BHJ	6/95
0	ISSUED FOR APPROVAL	JDE	8/92	JAH	JDE/JAH	BHJ	8/92
SHEET NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 3 OF 57



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

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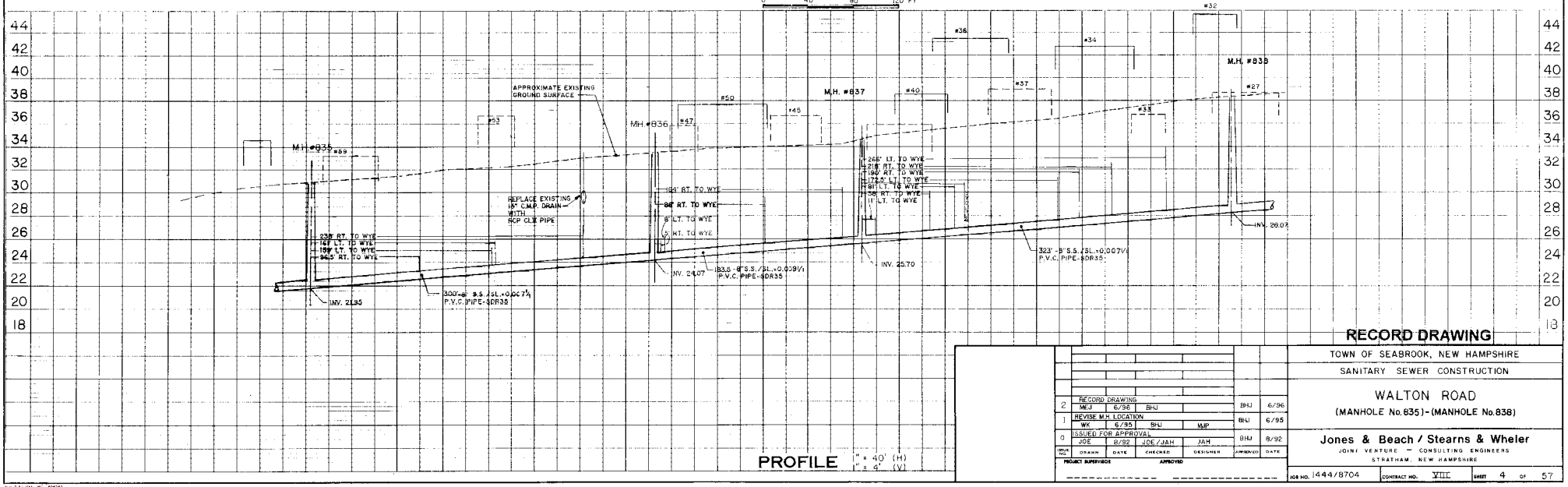
T.B.M. 46
"X" CUT ON SOUTHERLY BOLT OF HYDRANT ON NORTH SIDE OF WALTON ROAD AT FRONT OF HOUSE No. 45, APPROXIMATELY 0.20 MILES EAST ALONG WALTON ROAD FROM IT'S INTERSECTION WITH U.S. ROUTE 1

ELEV. 35.72

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

2	RECORD DRAWING	MEJ	6/96	BHJ		BHJ	6/96
1	REVISE M.H. LOCATION	WK	6/95	BHJ	MJP	BHJ	6/95
0	ISSUED FOR APPROVAL	JOE	8/92	JOE/JAH	JAH	BHJ	8/92
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

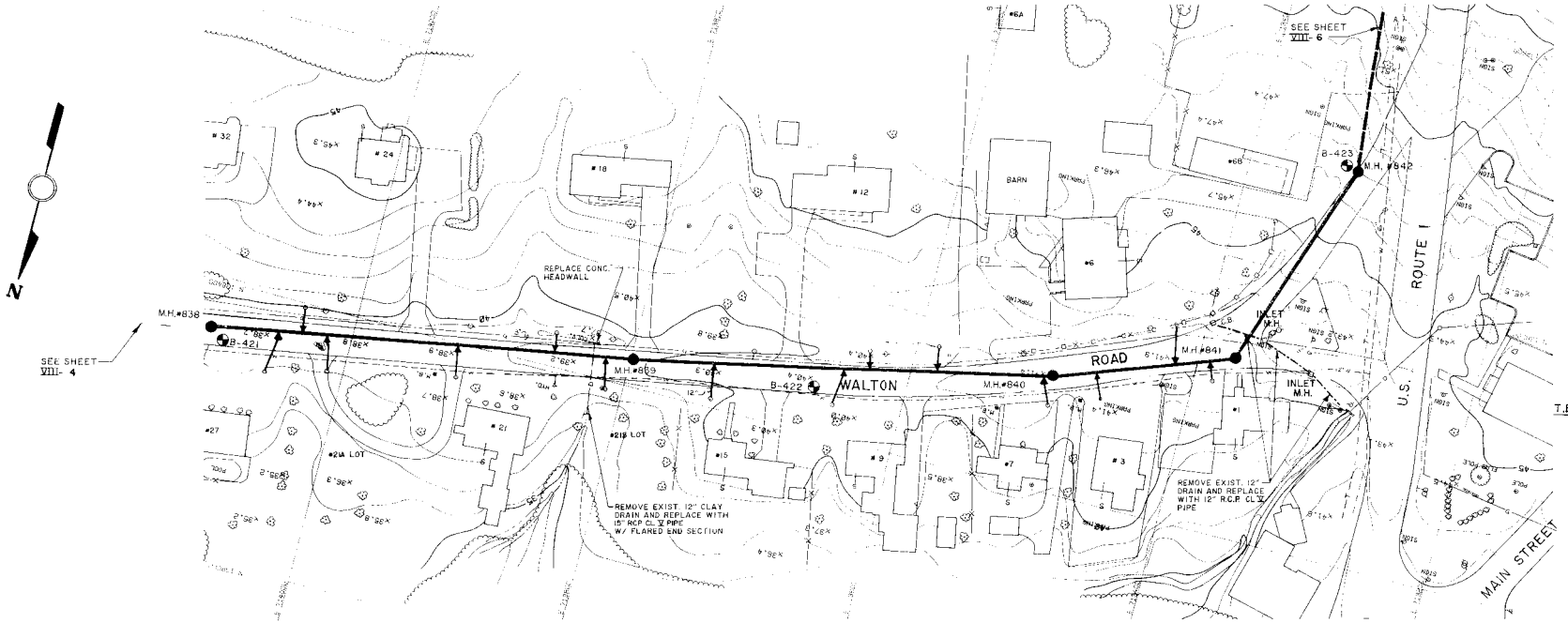
SANITARY SEWER CONSTRUCTION

WALTON ROAD

(MANHOLE No. 835) - (MANHOLE No. 838)

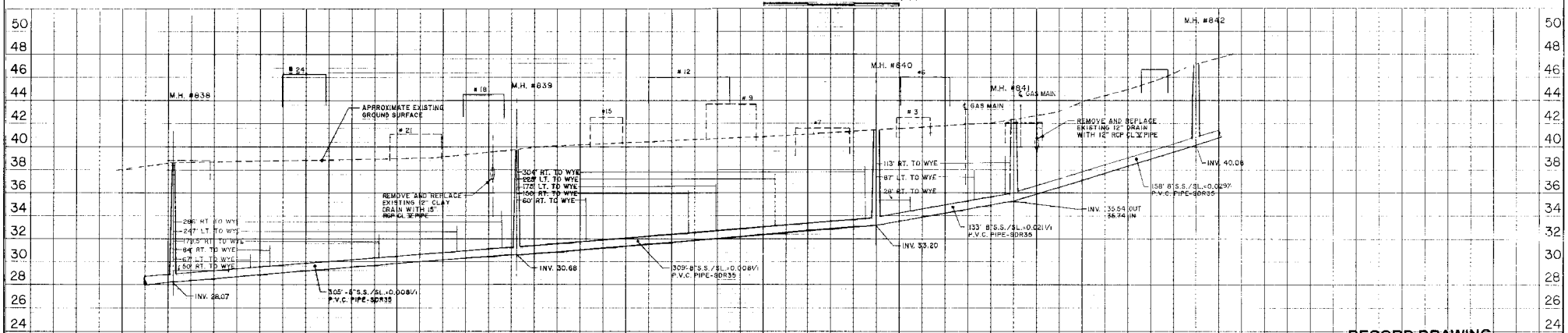
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 4 OF 57



PLAN 1"=40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

T.B.M. 36

CHISELED SQUARE IN NORTH END OF CONCRETE BASE OF WORLD WAR MONUMENT AT U.S. ROUTE 1 / WALTON ROAD INTERSECTION, AND ABOUT 0.50 MILES NORTH ALONG U.S. ROUTE 1 FROM IT'S JUNCTION WITH ROUTE 286

ELEV. 43.61

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION. ANY DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

RECORD DRAWING

1	RECORD DRAWING				BHJ	6/96
	MEJ	6/96	BHJ			
0	ISSUED FOR APPROVAL				BHJ	6/92
	JOE	8/92	JOE	JOE/JAH		
DRAWN	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WALTON ROAD

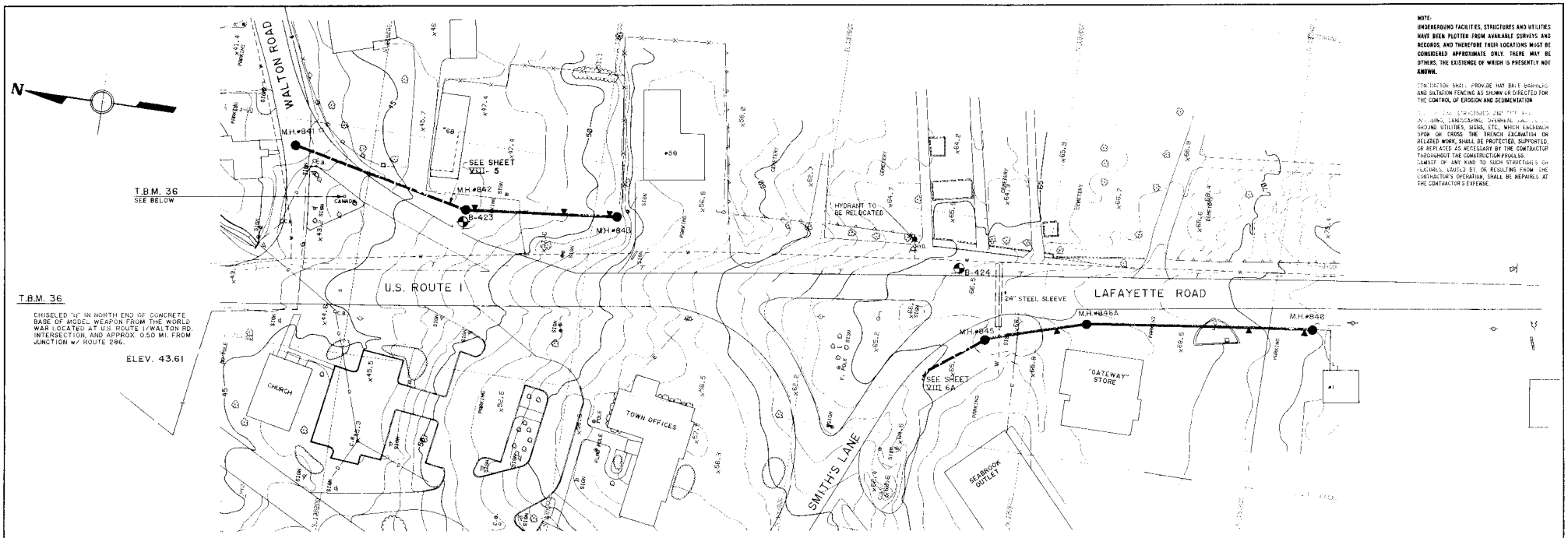
(MANHOLE No. 838)-(MANHOLE No. 842)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 5 OF 57



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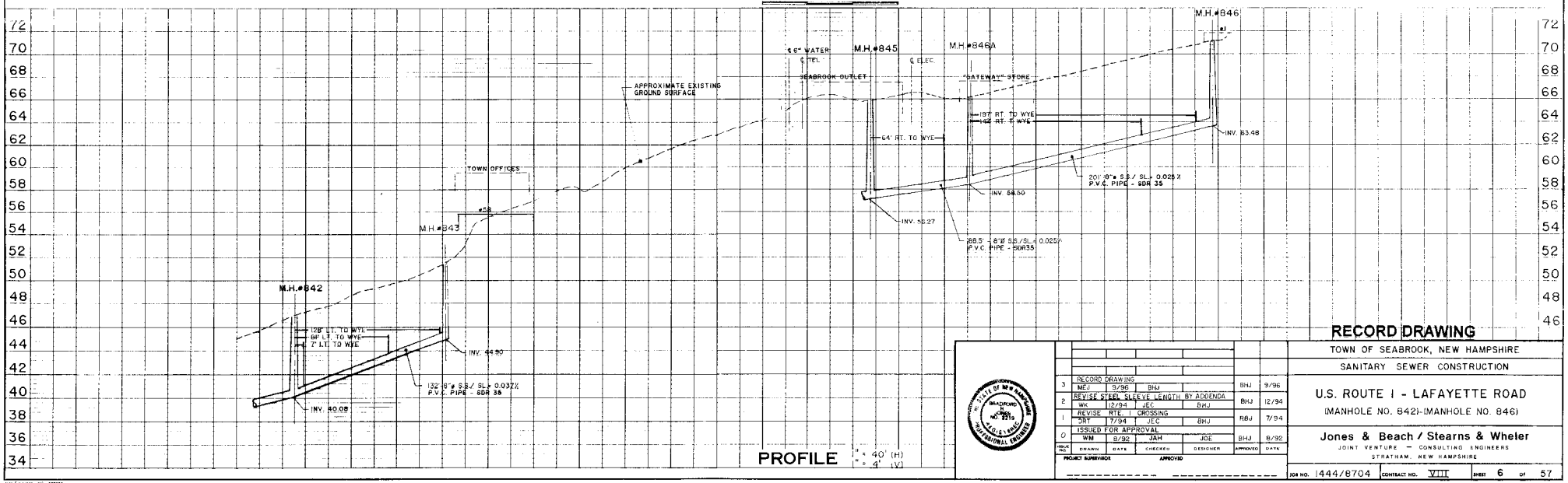
CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL [illegible] AND [illegible] AND [illegible] INCLUDING, LANDSCAPING, OVERHEAD AND [illegible] GROUND UTILITIES, SIGNS, ETC. WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

U.S. ROUTE 1 - LAFAYETTE ROAD
(MANHOLE NO. 842)-(MANHOLE NO. 846)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	MEJ	9/96	BNJ		BNJ	9/96
2	REVISE STEEL SLEEVE LENGTH BY ADDENDA	WK	12/94	JEC	BNJ	BNJ	12/94
1	REVISE RTE. 1 CROSSING	SRT	7/94	JEC	BNJ	RBJ	7/94
0	ISSUED FOR APPROVAL	WM	8/92	JAH	JOE	BNJ	8/92

PROJECT SUPERVISOR _____ APPROVED _____

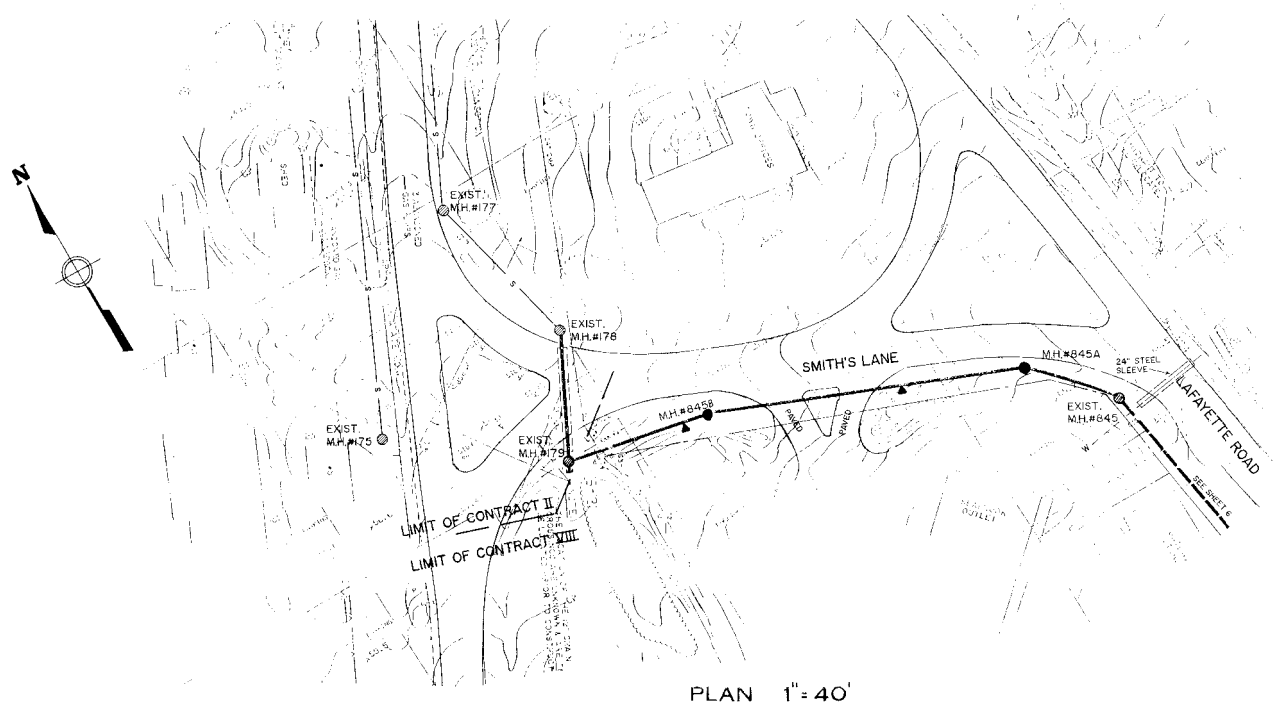
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

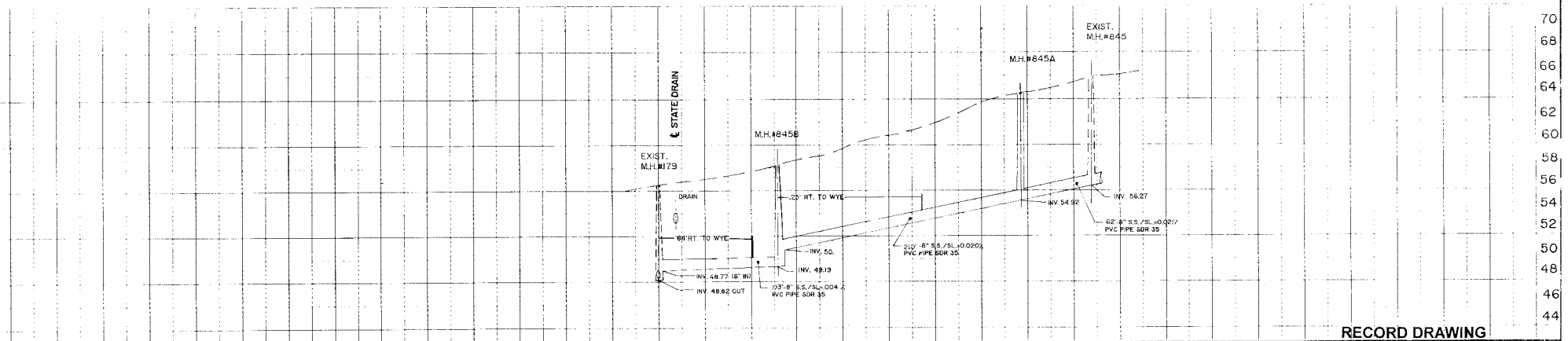
JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 6 OF 57

STATE OF NEW HAMPSHIRE BRADFORD N. JONES No. 5515 REGISTERED PROFESSIONAL ENGINEER

© SULLIVAN, INC. 609287

NOTES





RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

SMITH'S LANE

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	COMPARED	DATE
1	RECORD DRAWING	MEJ	6/96	BHJ		BHJ	6/96
0	ISSUED FOR CONSTRUCTION	WK	5/95	BHJ	SC	BHJ	5/95

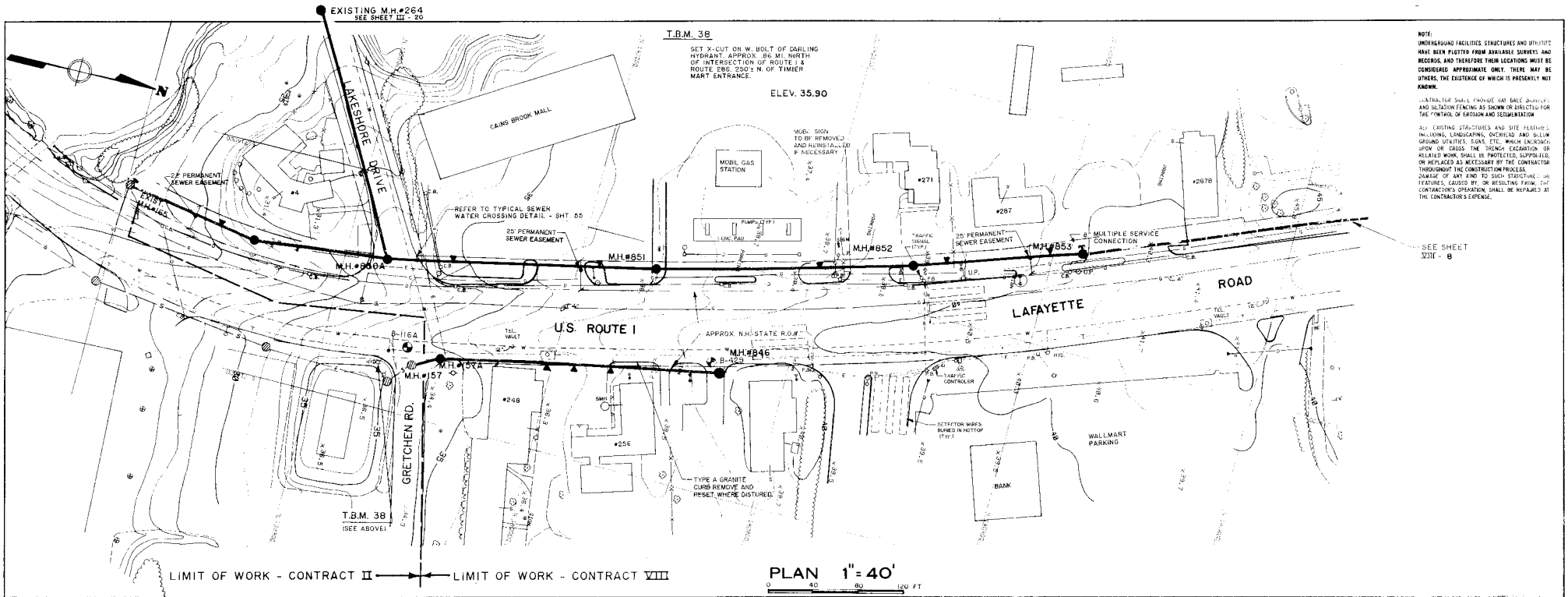
PROJECT SUPERVISOR — APPROVED

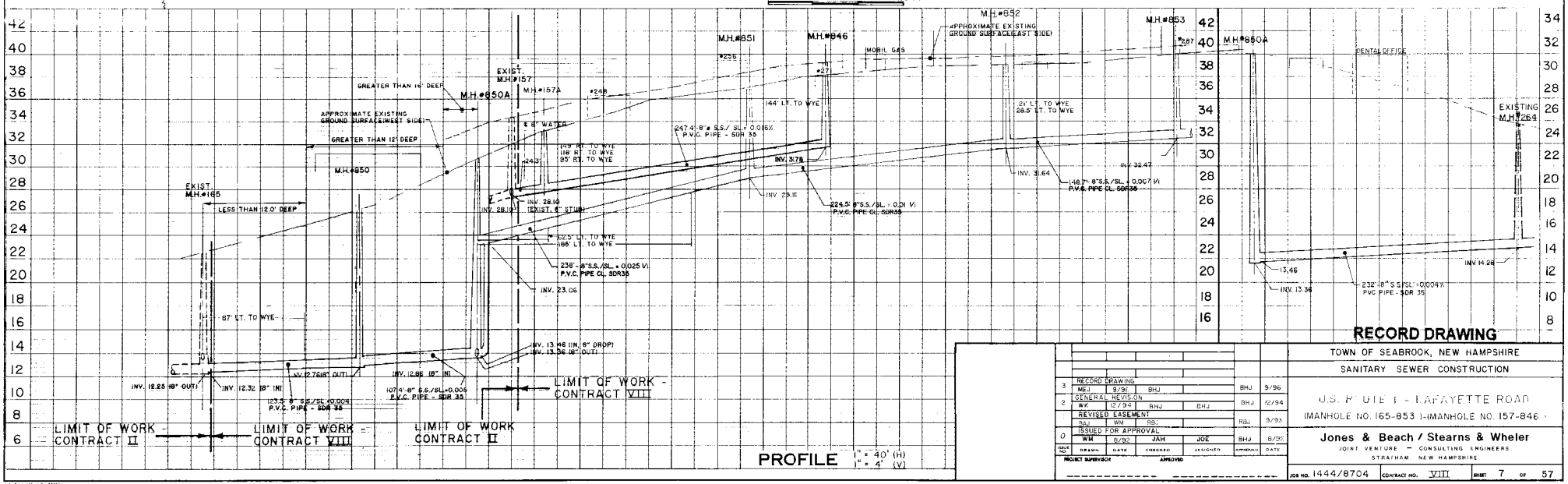
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

DURHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VIII | SHEET 6A OF 57


EXISTING M.H.#264
SEE SHEET III - 20
T.B.M. 38
SET X-CUT ON W. BOLT OF DARLING HYDRANT, APPROX. .86 MI. NORTH OF INTERSECTION OF ROUTE 1 & ROUTE 286, 250± N. OF TIMBER MART ENTRANCE.
ELEV. 35.90
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
CONTRACTOR SHALL PROVIDE HAY BALE BARRIER AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION
ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURE OR FEATURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
LAKESHORE DRIVE
CAING BROOK MALL
MOBIL GAS STATION
MOBIL SIGN TO BE REMOVED AND REINSTALLED IF NECESSARY
25' PERMANENT SEWER EASEMENT
EXIST. M.H.#165
REFER TO TYPICAL SEWER WATER CROSSING DETAIL - SHT. 55
M.H.#850A
M.H.#851
M.H.#852
M.H.#853
8" MULTIPLE SERVICE CONNECTION
SEE SHEET XIII - 8
U.S. ROUTE 1
APPROX. N.H. STATE R.O.W.
LAFAYETTE ROAD
M.H.#157
M.H.#157A
M.H.#846
B-116A
B-429
GRETCHEN RD.
TRAFFIC CONTROLLER
DETECTOR WIRES BURIED IN HOTTOP (TYP.)
WALLMART PARKING
BANK
TYPE A GRANITE CURB REMOVE AND RESET, WHERE DISTURED.
T.B.M. 38 (SEE ABOVE)
LIMIT OF WORK - CONTRACT II
LIMIT OF WORK - CONTRACT VIII
PLAN 1" = 40'
0 40 80 120 FT



RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD DRAWING				BHJ	9/96
	MEJ	9/96	BHJ			
2	GENERAL REVISION				BHJ	12/94
	WK	12/94	BHJ	BHJ		
	REVISED EASEMENT				RBJ	9/93
	RBJ	WM	RBJ			
0	ISSUED FOR APPROVAL				BHJ	8/92
	WM	8/92	JAH	JOE		

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

U.S. ROUTE 1 - LAFAYETTE ROAD

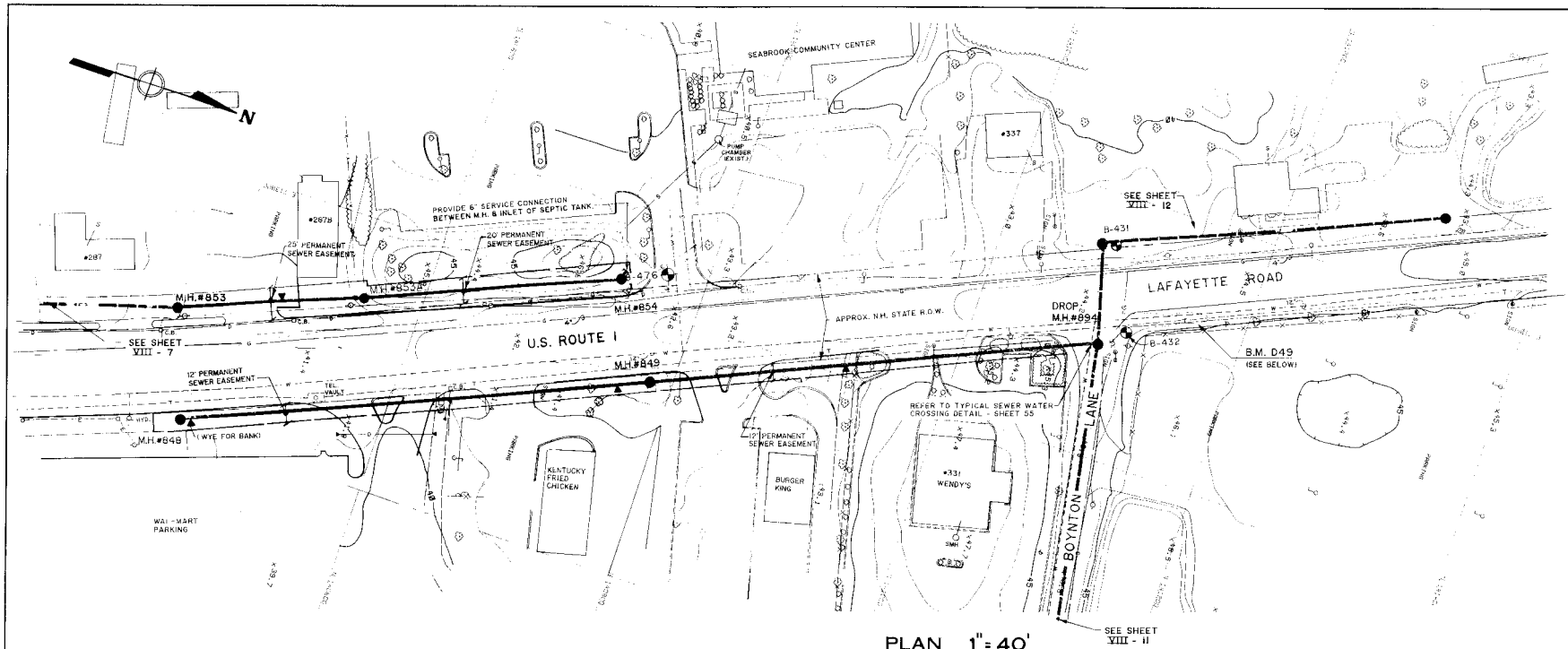
(MANHOLE NO. 165-853) - (MANHOLE NO. 157-846)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 7 OF 57



PLAN 1" = 40'

0 40 80 120 FT

NOTE:
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THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SILT FENCE AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

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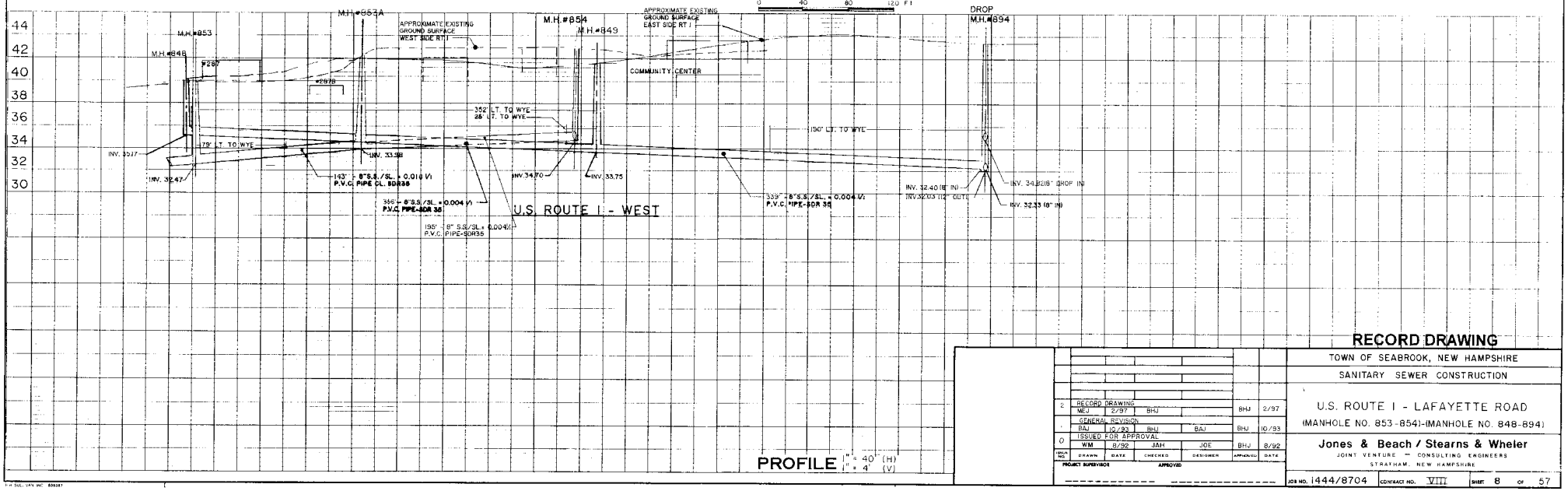
B.M. D49

C & GS DISK SET IN TOP OF CONC. POST PROJECTING 0.2 FT. APPROX. 3 MILES S. ALONG U.S. 1 FROM OLD POST OFFICE IN SEABROOK 40' N.E. OF ℄ OF BOYNTON LANE NEAR WENDY'S & 31' EAST OF ℄ U.S. 1, DISK STAMPED "D49 1966"

ELEV. 43.60



PROFILE 1" = 40' (H) 1" = 4' (V)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING MEJ	2/97	BHJ		BHJ	2/97
1	GENERAL REVISION BAJ	10/93	BHJ	BAJ	BHJ	10/93
0	ISSUED FOR APPROVAL WM	8/92	JAH	JOE	BHJ	8/92

PROJECT SUPERVISOR _____ APPROVED _____

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

U.S. ROUTE 1 - LAFAYETTE ROAD

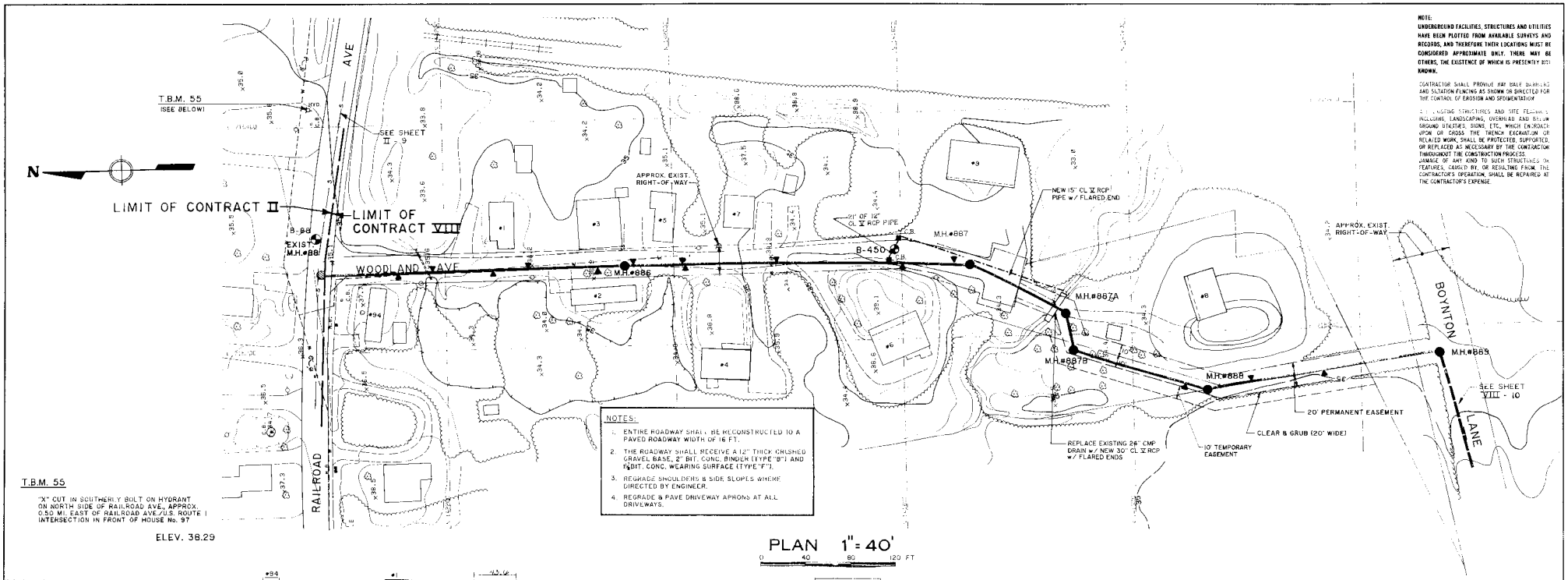
(MANHOLE NO. 853-854)-(MANHOLE NO. 848-894)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VIII | SHEET 8 OF 57


T.B.M. 55
(SEE BELOW)
SEE SHEET II - 9
N
LIMIT OF CONTRACT II
LIMIT OF CONTRACT VIII
B-88
EXIST. M.H.#88
WOODLAND AVE
M.H.#886
APPROX. EXIST. RIGHT-OF-WAY
NEW 15" CL V RCP PIPE w/ FLARED END
21" OF 12" CL V RCP PIPE
C.B.
M.H.#887
B-450
M.H.#887A
M.H.#887B
M.H.#888
M.H.#889
BOYNTON
LANE
RAILROAD
SEE SHEET VIII - 10
20' PERMANENT EASEMENT
CLEAR & GRUB (20' WIDE)
10' TEMPORARY EASEMENT
REPLACE EXISTING 24" CMP DRAIN w/ NEW 30" CL V RCP w/ FLARED ENDS
NOTES:
1. ENTIRE ROADWAY SHALL BE RECONSTRUCTED TO A PAVED ROADWAY WIDTH OF 16 FT.
2. THE ROADWAY SHALL RECEIVE A 12" THICK CRUSHED GRAVEL BASE, 2" BIT. CONC. BINDER (TYPE "B") AND 1½ BIT. CONC. WEARING SURFACE (TYPE "F").
3. REGRADE SHOULDERS & SIDE SLOPES WHERE DIRECTED BY ENGINEER.
4. REGRADE & PAVE DRIVEWAY APRONS AT ALL DRIVEWAYS.

NOTE:
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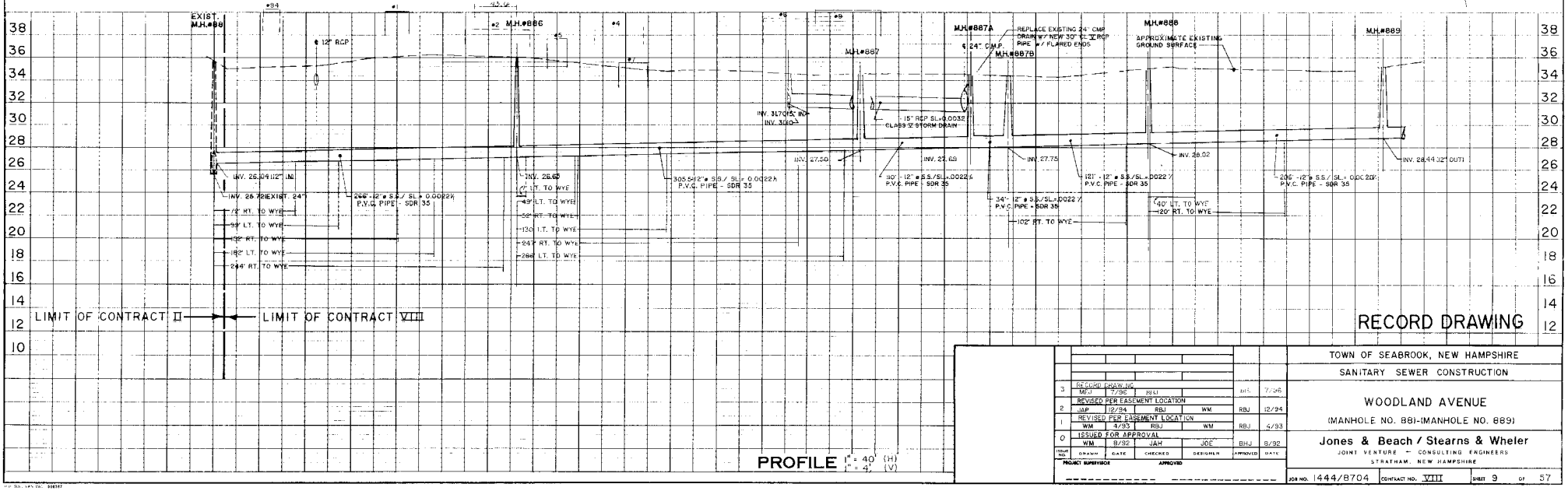
T.B.M. 55

"X" CUT IN SOUTHERLY BOLT ON HYDRANT ON NORTH SIDE OF RAILROAD AVE., APPROX. 0.50 MI. EAST OF RAILROAD AVE./U.S. ROUTE 1 INTERSECTION IN FRONT OF HOUSE No. 97

ELEV. 38.29

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

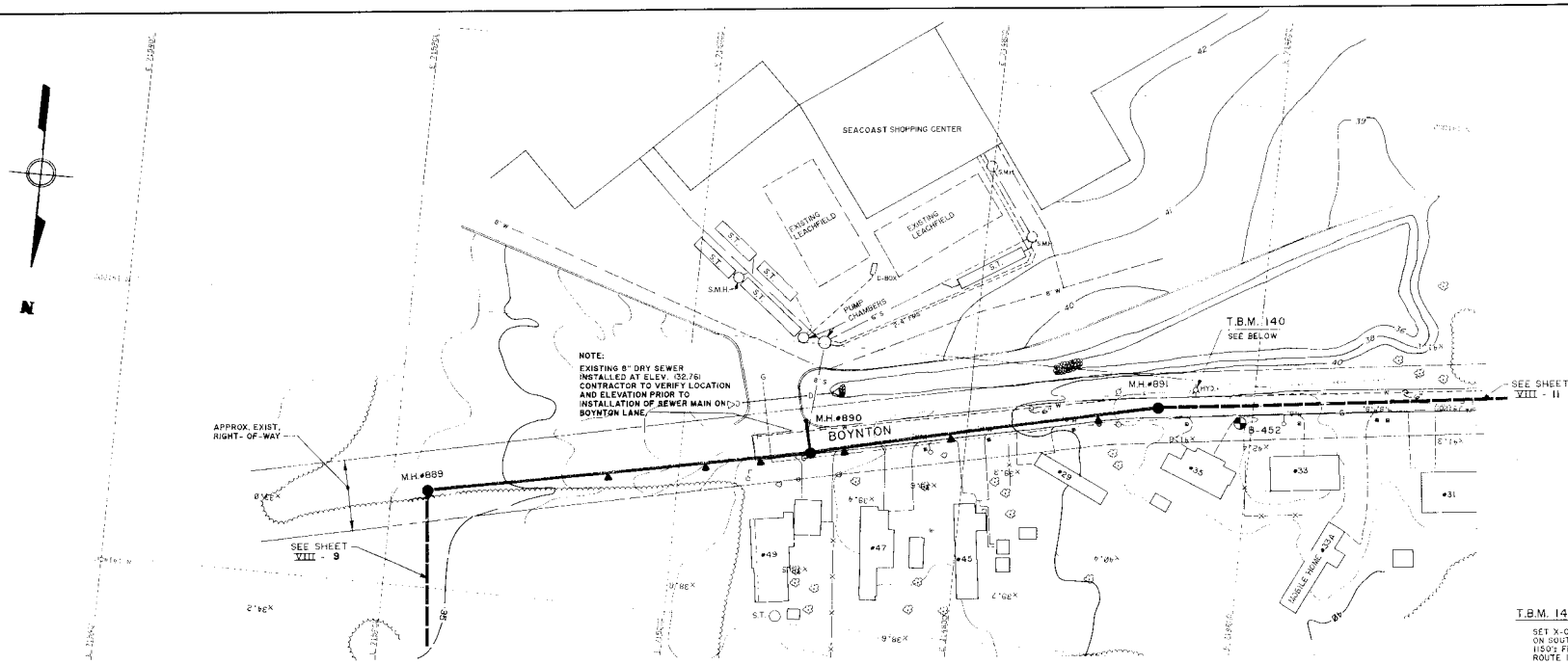
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING MRJ 7/96		RMJ		RBJ	7/96
2	REVISED PER EASEMENT LOCATION JAP 12/94		RBJ	WM	RBJ	12/94
1	REVISED PER EASEMENT LOCATION WM 4/93		RBJ	WM	RBJ	4/93
0	ISSUED FOR APPROVAL WM 8/92		JAH	JOE	BHJ	8/92

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
WOODLAND AVENUE
(MANHOLE NO. 88)-(MANHOLE NO. 889)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 9 OF 57



NOTE:
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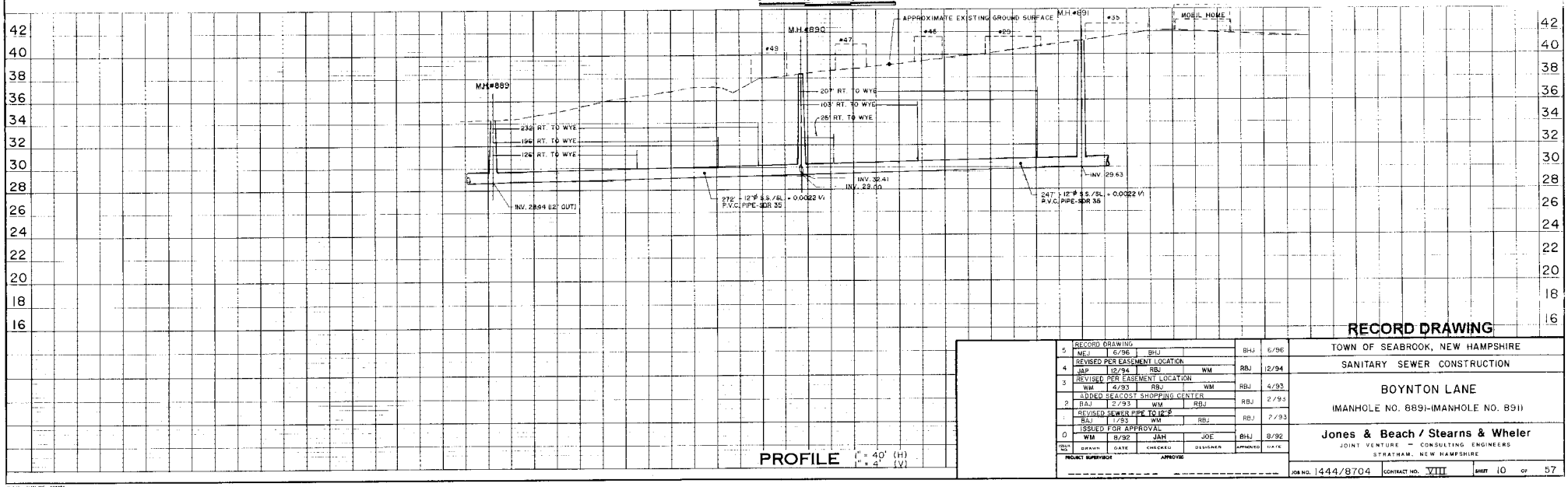
T.B.M. 140

SET X-CUT ON N. BOLT OF HYDRANT ON SOUTH SIDE OF BOYNTON LANE 1150'± FROM INTERSECTION OF U.S. ROUTE 1 AND BOYNTON LANE

ELEV. 43.36

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

5	RECORD DRAWING	MEJ	6/96	BHJ		BHJ	6/96
4	REVISED PER EASEMENT LOCATION	JAP	12/94	RBJ	WM	RBJ	12/94
3	REVISED PER EASEMENT LOCATION	WM	4/93	RBJ	WM	RBJ	4/93
2	ADDED SEACOST SHOPPING CENTER	BAJ	2/93	WM	RBJ	RBJ	2/93
1	REVISED SEWER PIPE TO 12"ø	BAJ	1/93	WM	RBJ	RBJ	7/93
0	ISSUED FOR APPROVAL	WM	8/92	JAH	JOE	BHJ	8/92
	ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BOYNTON LANE

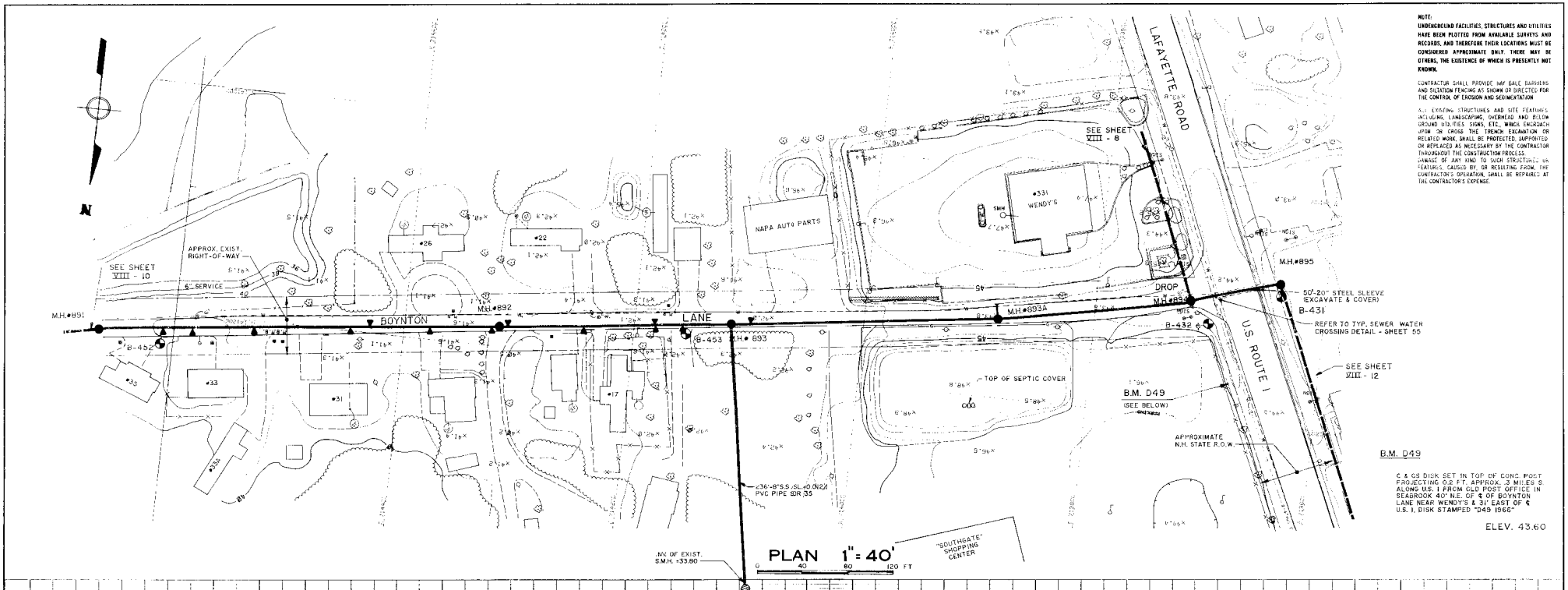
(MANHOLE NO. 889)-(MANHOLE NO. 891)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 10 OF 57



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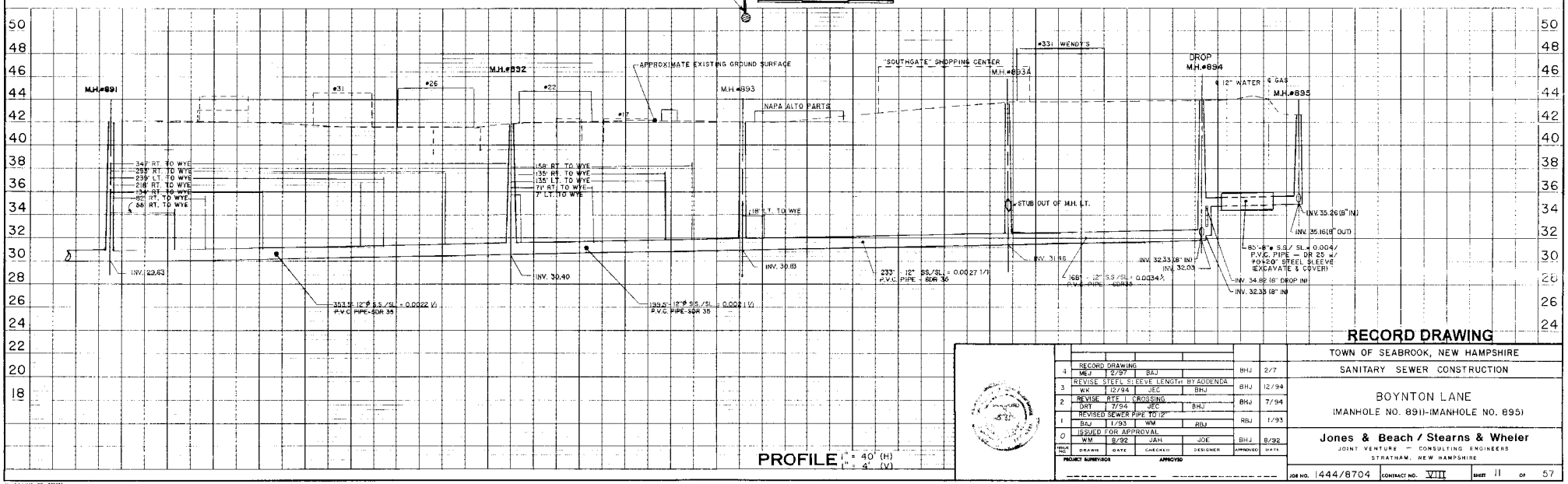
B.M. D49

℄ & GS DISK SET IN TOP OF CONC. POST PROJECTING 0.2 FT. APPROX. 3 MILES S. ALONG U.S. 1 FROM OLD POST OFFICE IN SEABROOK, 40' N.E. OF ℄ OF BOYNTON LANE NEAR WENDY'S & 31' EAST OF ℄ U.S. 1, DISK STAMPED "D49 1966"

ELEV. 43.60



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.						
4	RECORD DRAWING				BHJ	2/7
	MEJ	2/97	BAJ			
3	REVISE STEEL SLEEVE LENGTH BY ADDENDA			BHJ	BHJ	12/94
	WK	12/94	JEC			
2	REVISE RTE 1 CROSSING			BHJ	BHJ	7/94
	DRT	7/94	JEC			
1	REVISED SEWER PIPE TO 12"			RBJ	RBJ	1/93
	BAJ	1/93	WM			
0	ISSUED FOR APPROVAL					
	WM	8/92	JAH	JOE	BHJ	8/92
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

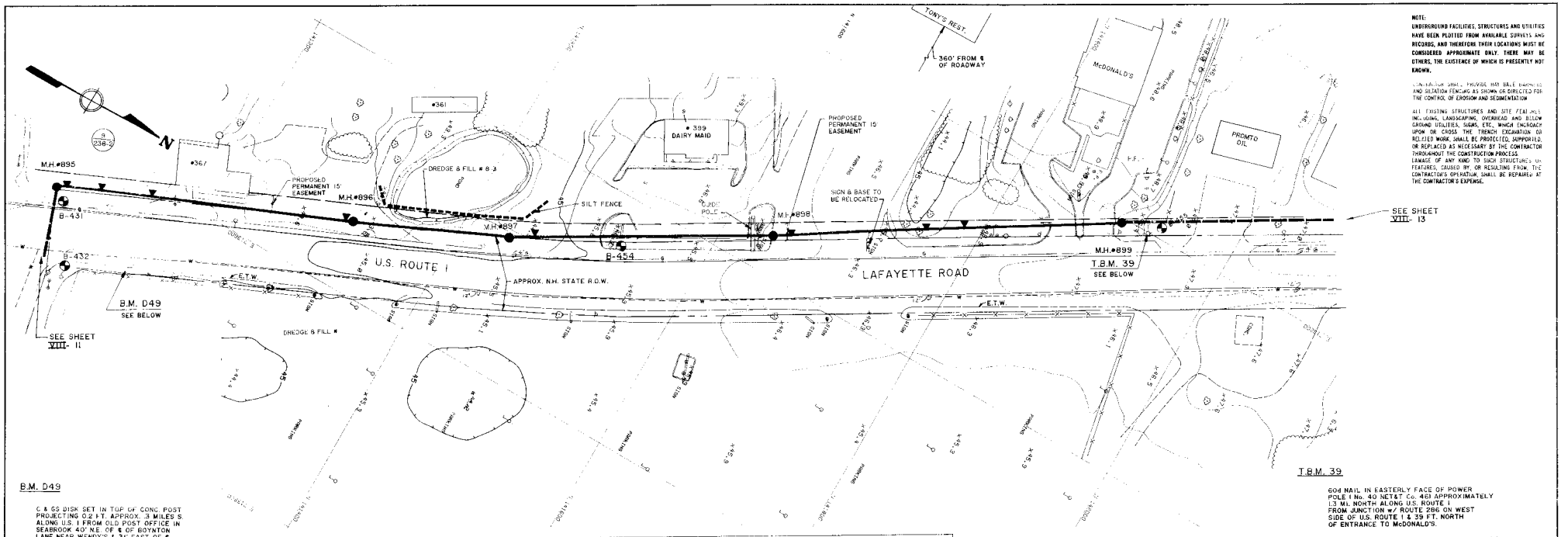
SANITARY SEWER CONSTRUCTION

BOYNTON LANE

(MANHOLE NO. 891)-(MANHOLE NO. 895)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 11 OF 57



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

B.M. D49

℄ & GS DISK SET IN TOP OF CONC. POST PROJECTING 0.2 FT. APPROX. .3 MILES S. ALONG U.S. 1 FROM OLD POST OFFICE IN SEABROOK 40' N.E. OF ℄ OF BOYNTON LANE NEAR WENDY'S & 31' EAST OF ℄ U.S. 1, DISK STAMPED "D49 1966"

ELEV. 43.60

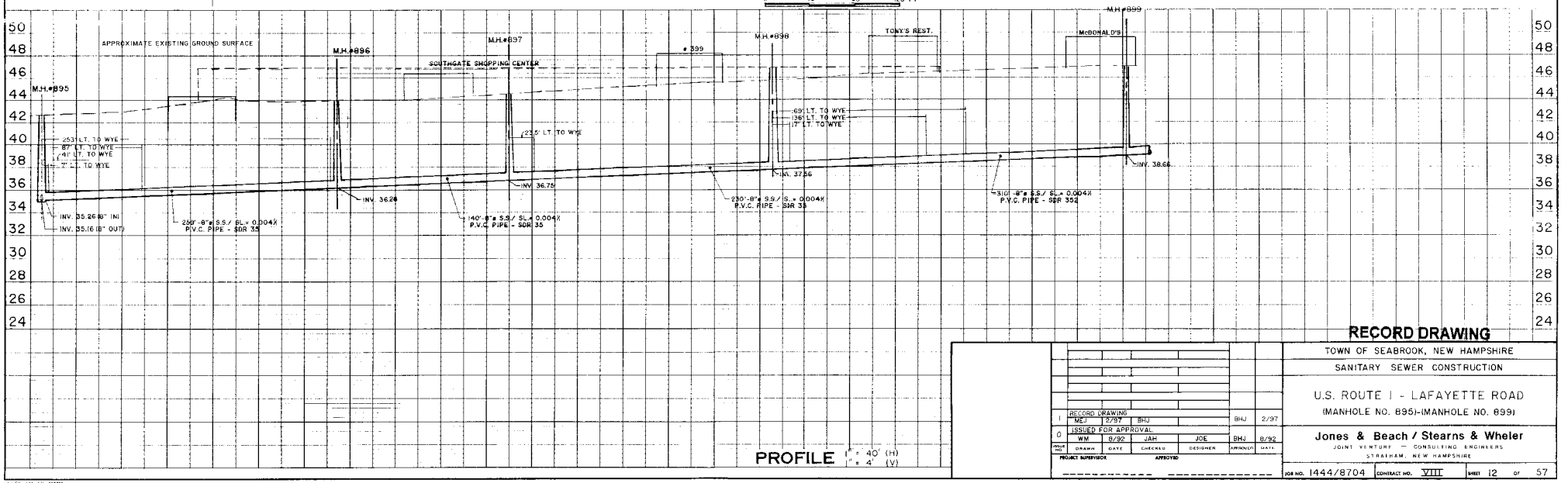
T.B.M. 39

60d NAIL IN EASTERLY FACE OF POWER POLE 1 No. 40 NET&T Co. 461 APPROXIMATELY 1.3 Mi. NORTH ALONG U.S. ROUTE 1 FROM JUNCTION w/ ROUTE 286 ON WEST SIDE OF U.S. ROUTE 1 & 39 FT. NORTH OF ENTRANCE TO McDONALD'S.

ELEV. 49.16

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

U.S. ROUTE 1 - LAFAYETTE ROAD

(MANHOLE NO. 895)-(MANHOLE NO. 899)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING MEJ	2/97	BHJ		BHJ	2/97
0	ISSUED FOR APPROVAL WM	8/92	JAH	JOE	BHJ	8/92

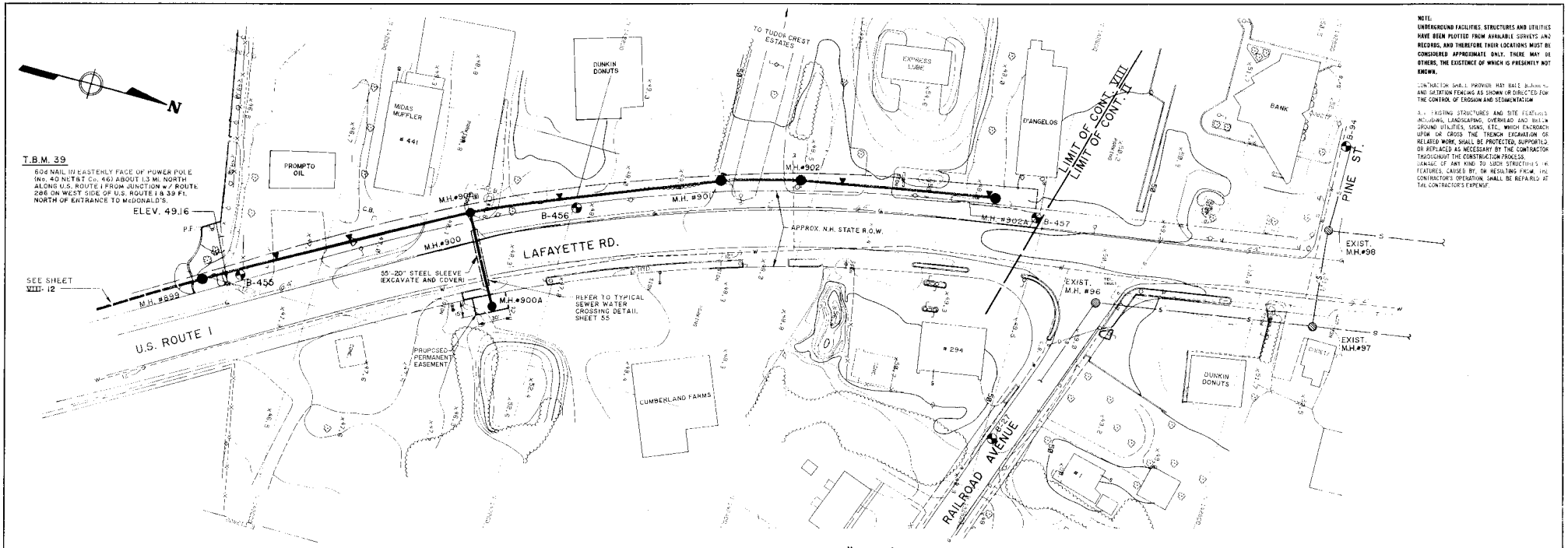
PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 12 OF 57


N
T.B.M. 39
60d NAIL IN EASTERLY FACE OF POWER POLE (No. 40 NET&T Co. 46) ABOUT 1.3 MI. NORTH ALONG U.S. ROUTE 1 FROM JUNCTION W./ ROUTE 286 ON WEST SIDE OF U.S. ROUTE 1 & 39 Ft. NORTH OF ENTRANCE TO McDONALD'S.
ELEV. 49.16
SEE SHEET VIII- 12
U.S. ROUTE 1
LAFAYETTE RD.
PINE ST.
RAILROAD AVENUE
PROMPTO OIL
MIDAS MUFFLER # 441
DUNKIN DONUTS
TO TUDOR CREST ESTATES
EXPRESS LUBE
D'ANGELOS
BANK
294
1
CUMBERLAND FARMS
DUNKIN DONUTS
M.H. #899
M.H. #900
M.H. #900A
M.H. #901
M.H. #902
M.H. #902A
B-455
B-456
B-457
C.B.
P.F.
APPROX. N.H. STATE R.O.W.
LIMIT OF CONT. VIII
LIMIT OF CONT. II
EXIST. M.H. #98
EXIST. M.H. #96
EXIST. M.H. #97
55'-20" STEEL SLEEVE (EXCAVATE AND COVER)
PROPOSED PERMANENT EASEMENT
REFER TO TYPICAL SEWER WATER CROSSING DETAIL SHEET 55
NOTE:
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CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.
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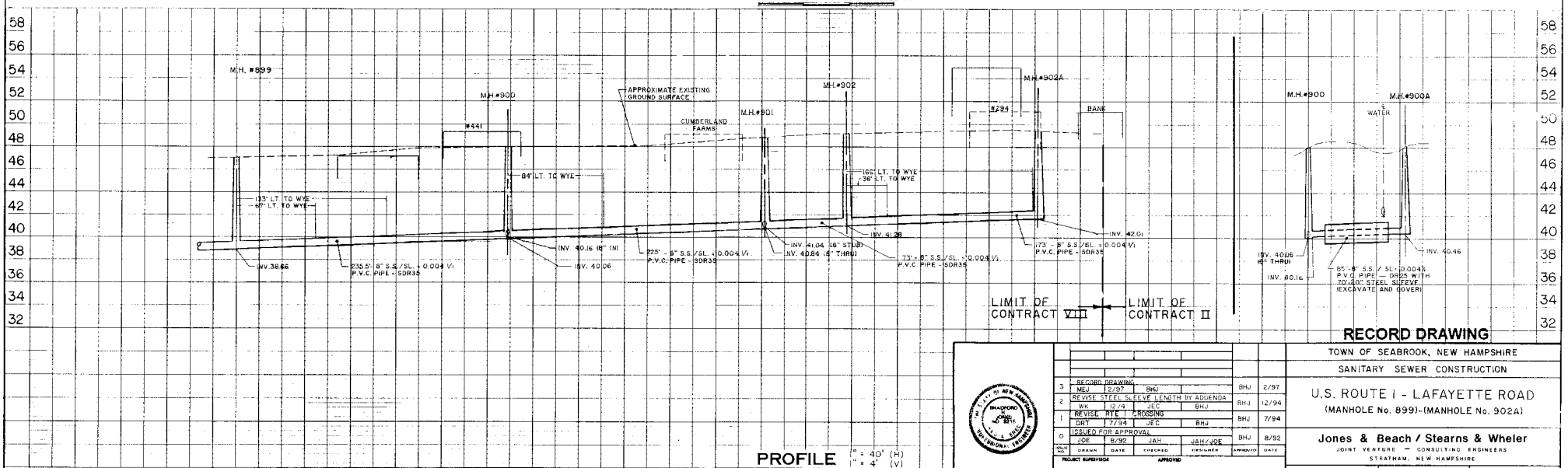
PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

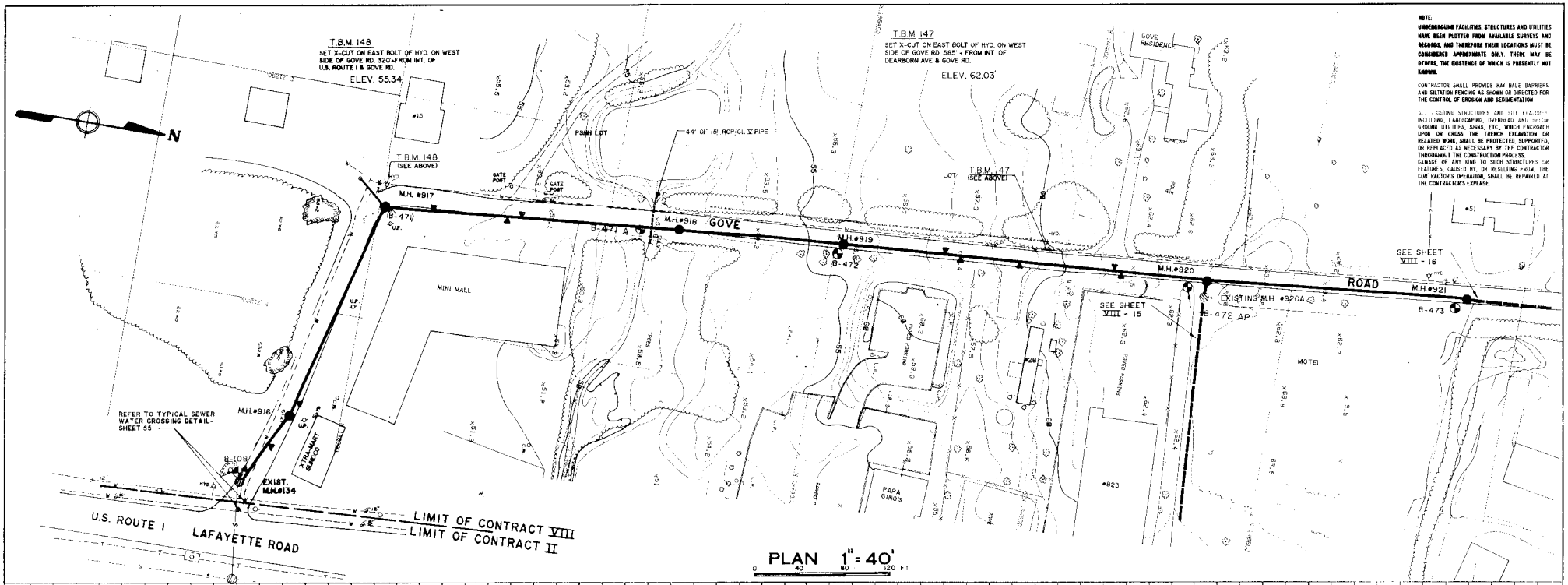
3	RECORD DRAWING	MEJ	12/97	BHJ	BHJ	2/97
2	REVISE STEEL SLEEVE LENGTH BY ADDENDA	WK	12/94	JEC	BHJ	12/94
1	REVISE RTE 1 CROSSING	DRT	7/94	JEC	BHJ	7/94
0	ISSUED FOR APPROVAL	JOE	8/92	JAH	JAH/JOE	8/92
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
U.S. ROUTE 1 - LAFAYETTE ROAD
(MANHOLE No. 899)-(MANHOLE No. 902A)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 13 OF 57


T.B.M. 148
SET X-CUT ON EAST BOLT OF HYD. ON WEST SIDE OF GOVE RD. 320'± FROM INT. OF U.S. ROUTE 1 & GOVE RD.
ELEV. 55.34
T.B.M. 147
SET X-CUT ON EAST BOLT OF HYD. ON WEST SIDE OF GOVE RD. 585'± FROM INT. OF DEARBORN AVE & GOVE RD.
ELEV. 62.03'
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
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N
GOVE ROAD
M.H.#916
M.H.#917
M.H.#918
M.H.#919
M.H.#920
M.H.#921
EXIST. M.H.#134
EXISTING M.H. #920A
B-471
B-472
B-472 AP
B-473
B-108
REFER TO TYPICAL SEWER WATER CROSSING DETAIL-SHEET 55
SEE SHEET VIII - 16
SEE SHEET VIII - 15
MINI MALL
MOTEL
GOVE RESIDENCE
PAPA GINO'S
U.S. ROUTE 1
LAFAYETTE ROAD
LIMIT OF CONTRACT VIII
LIMIT OF CONTRACT II
PLAN 1" = 40'
0 40 80 120 FT
APPROXIMATE EXISTING GROUND SURFACE
15" ø RCP CULVERT
120' LT. TO WYE
107' RT. TO WYE
43' LT. TO WYE
245' RT. TO WYE
241' LT. TO WYE
155' RT. TO WYE
104' RT. TO WYE
91' LT. TO WYE
INV. 48.17
INV. 44.09 (IN)
INV. 43.99 (OUT)
INV. 47.29 (12" THRU)
INV. 48.60 (18" IN)
INV. 48.57 (12" THRU)
INV. 49.80
INV. 42.03
INV. 41.83 (12")
410' LT. TO WYE
442' RT. TO WYE
65.12'± @ 8.5% / SL. = 0.0835 P.V.C. PIPE - SDR 35
41' RT. TO WYE
206.12'± @ 8.5% / SL. = 0.008 P.V.C. PIPE - SDR 35
257.12'± @ 8.5% / SL. = 0.008 P.V.C. PIPE - SDR 35
155.12'± @ 8.5% / SL. = 0.008 P.V.C. PIPE - SDR 35
310' (12"± @ 8.5% / SL. = 0.008 P.V.C. PIPE - SDR 35
229.12'± @ 8.5% / SL. = 0.004 P.V.C. PIPE - SDR 35
LIMIT OF CONTRACT II
LIMIT OF CONTRACT VIII
PROFILE 1" = 40' (H) 1" = 4' (V)
66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

GOVE ROAD

(MANHOLE NO. 134)-(MANHOLE NO. 921)

1	RECORD DRAWING	MEJ	7/96	BHJ		BHJ	7/96
0	ISSUED FOR APPROVAL						
	WM	8/92	JAH	JAH/JOE		BHJ	8/92
	DRAWN	DATE	CHECKED	DESIGNED		APPROVED	DATE

PROJECT ENGINEER — APPROVED

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 14 OF 57

H.N. SULLIVAN, INC. 806387

NOTE:

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T.B.M. 147
SET X- CUT ON EAST BOLT OF HYD. ON WEST SIDE OF GOVE RD. 585 ± FROM INT. OF DEARBORN AVE. & GOVE RD.
ELEV. 62.03'

T.B.M. 147 (SEE RIGHT)

SEE SHEET VIII - 14

M.H.#918 GOVE ROAD M.H.#919 M.H.#920

B-472 B-472AP

SEE SHEET VIII - 14

#823

4" SERVICE CONNECTION

25' PERMANENT EASEMENT

PAPA GINO'S

APPROX. PROPERTY LINE (TYP.)

ECCENTRIC MAIR #817

LINE "B"

M.H.#930A

M.H.#930

U.S. ROUTE 1

LAFAYETTE ROAD

APPROX. N.H. STATE R.O.W.

PLAN 1" = 40'

0 40 80 120 FT

APPROXIMATE EXISTING GROUND SURFACE

MOTEL MOTEL

M.H.#920 M.H.#930 M.H.#930A

#823

112' RT. TO WYE

FOR #817

INV. 50.95

INV. 51.12 (6" STUB)

INV. 50.39

INV. 50.49

INV. 48.64

INV. 48.57 12" THRU

330'-8"ø S.S./ SL.= 0.004' P.V.C. PIPE - SDR 35

127'-8"ø S.S./ SL.= 0.004' P.V.C. PIPE - SDR 35

LINE "B"

64 62 60 58 56 54 52 50 48 46 44 42 40 38

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

GOVE ROAD CROSS COUNTRY

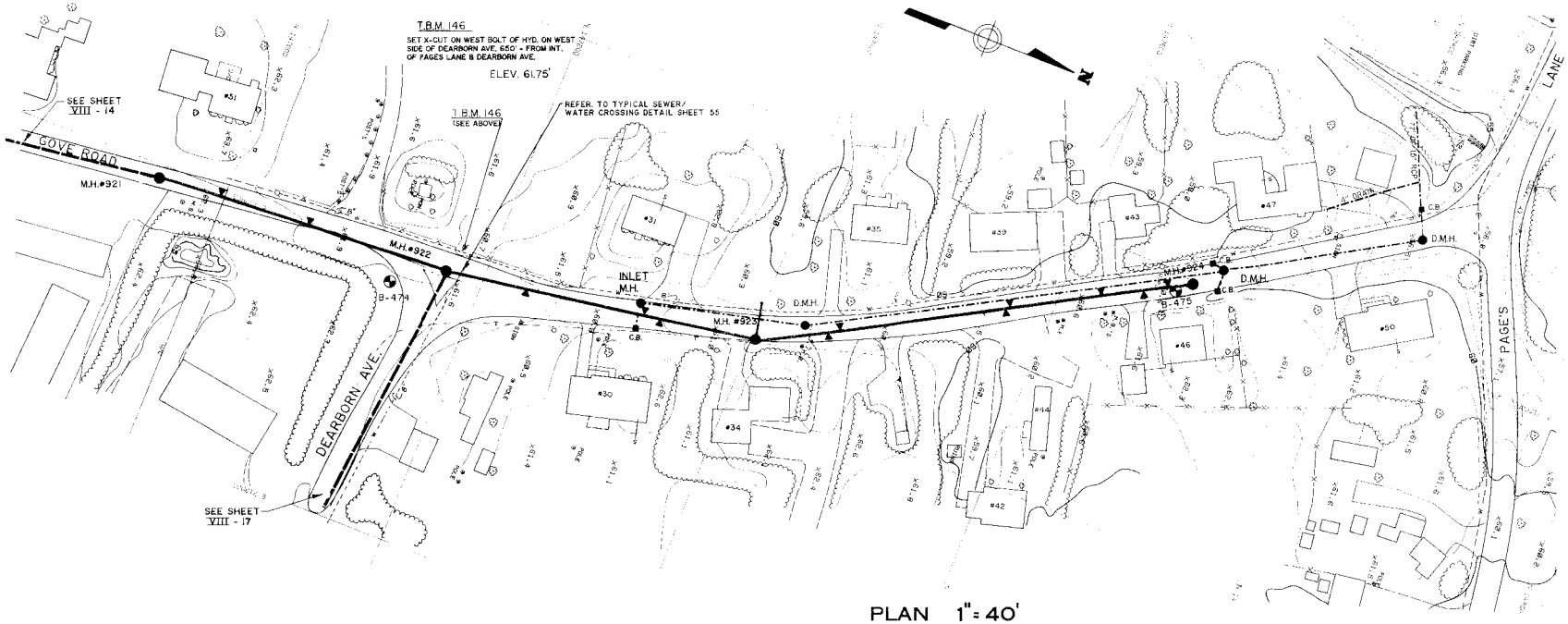
(MANHOLE NO. 920)-(MANHOLE NO. 930A)

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING MCJ 7/96 BHJ				BHJ	7/96
0	ISSUED FOR APPROVAL WM	8/92	JAH	JOE	BHJ	8/92

PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 15 OF 57



NOTE:
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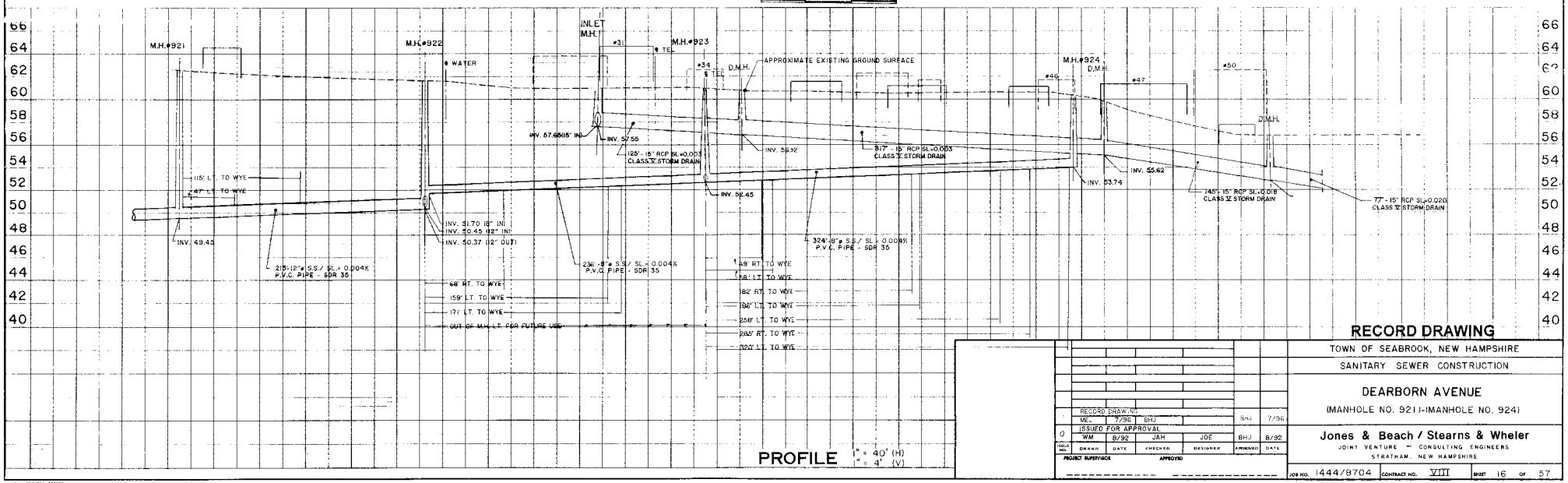
PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

DEARBORN AVENUE

(MANHOLE NO. 921)-(MANHOLE NO. 924)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
	MEL	7/96	BHJ		BHJ	7/96
RECORD DRAWING						
0	WM	8/92	JAH	JOE	BHJ	8/92
ISSUED FOR APPROVAL						

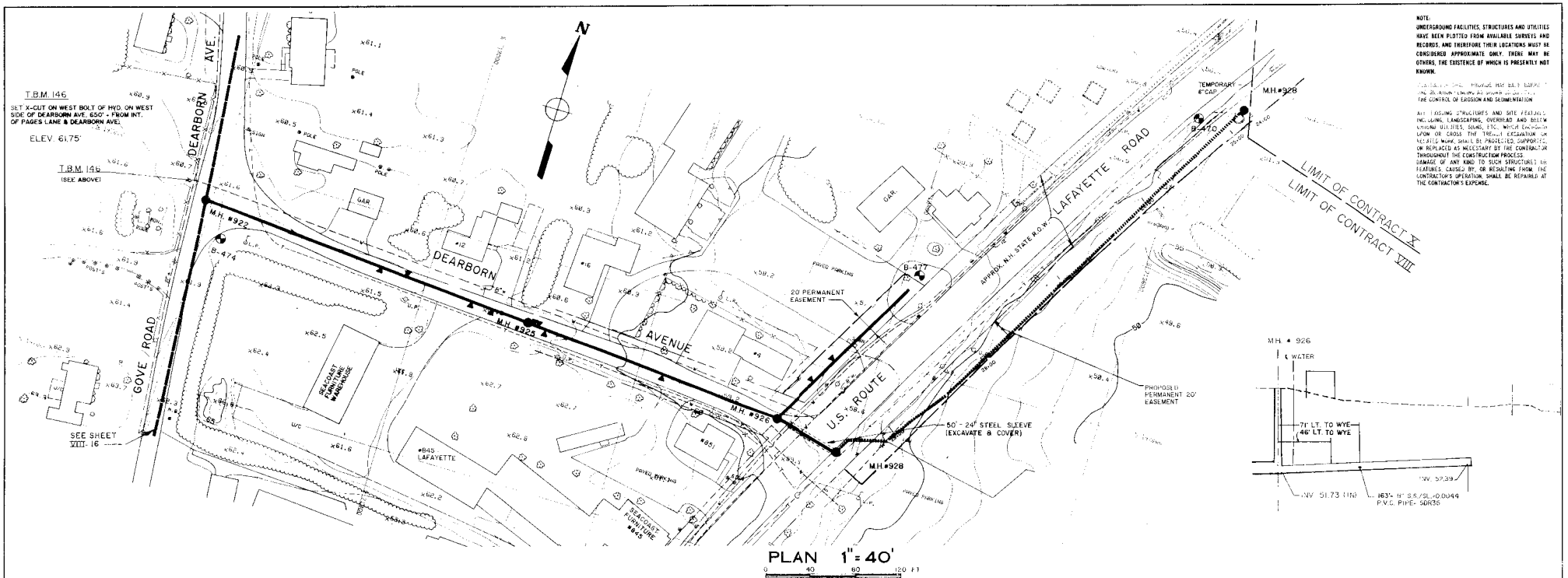
PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 16 OF 57


N
T.B.M. 146
SET X-CUT ON WEST BOLT OF HYD. ON WEST SIDE OF DEARBORN AVE. 650'± FROM INT. OF PAGES LANE & DEARBORN AVE.
ELEV. 61.75'
T.B.M. 146
(SEE ABOVE)
DEARBORN AVE.
GOVE ROAD
DEARBORN AVENUE
LAFAYETTE ROAD
U.S. ROUTE 1
APPROX. N.H. STATE R.O.W.
M.H. #922
M.H. #925
M.H. #926
M.H. #928
B-474
B-477
B-470
TEMPORARY 6"CAP
20' PERMANENT EASEMENT
PROPOSED PERMANENT 20' EASEMENT
50'-24" STEEL SLEEVE (EXCAVATE & COVER)
LIMIT OF CONTRACT X
LIMIT OF CONTRACT VIII
SEE SHEET VIII-16
SEACOAST FURNITURE WAREHOUSE
SEACOAST FURNITURE #845
#845 LAFAYETTE
#851
GAR.
W/C
PAVED PARKING
PAVED DRIVEWAY
NOTE:
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THE CONTROL OF EROSION AND SEDIMENTATION
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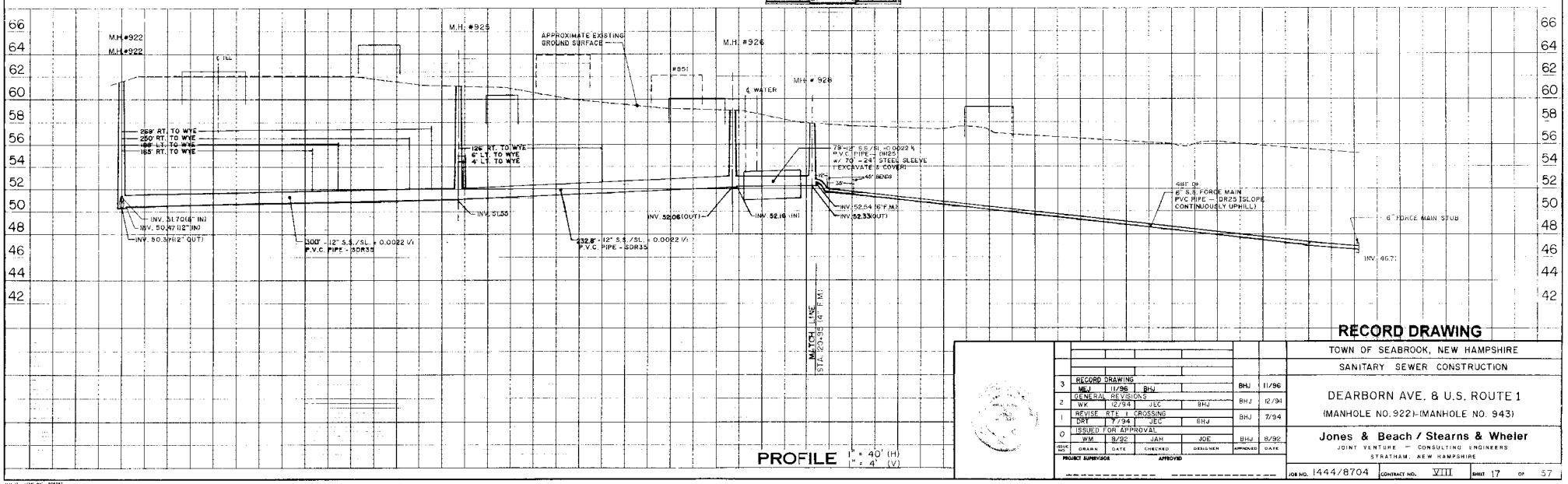
M.H. # 926
℄ WATER
71' LT. TO WYE
46' LT. TO WYE
INV. 57.39
INV. 51.73 (IN)
163'-8" S.S./SL.=0.0044 P.V.C. PIPE- SDR35

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

DEARBORN AVE. & U.S. ROUTE 1

(MANHOLE NO. 922)-(MANHOLE NO. 943)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING				BHJ	11/96
	MEJ	11/96	BHJ			
2	GENERAL REVISIONS				BHJ	12/94
	WK	12/94	JEC	BHJ		
1	REVISE RTE. 1 CROSSING				BHJ	7/94
	DRT	7/94	JEC	BHJ		
0	ISSUED FOR APPROVAL				BHJ	8/92
	WM	8/92	JAH	JOE		

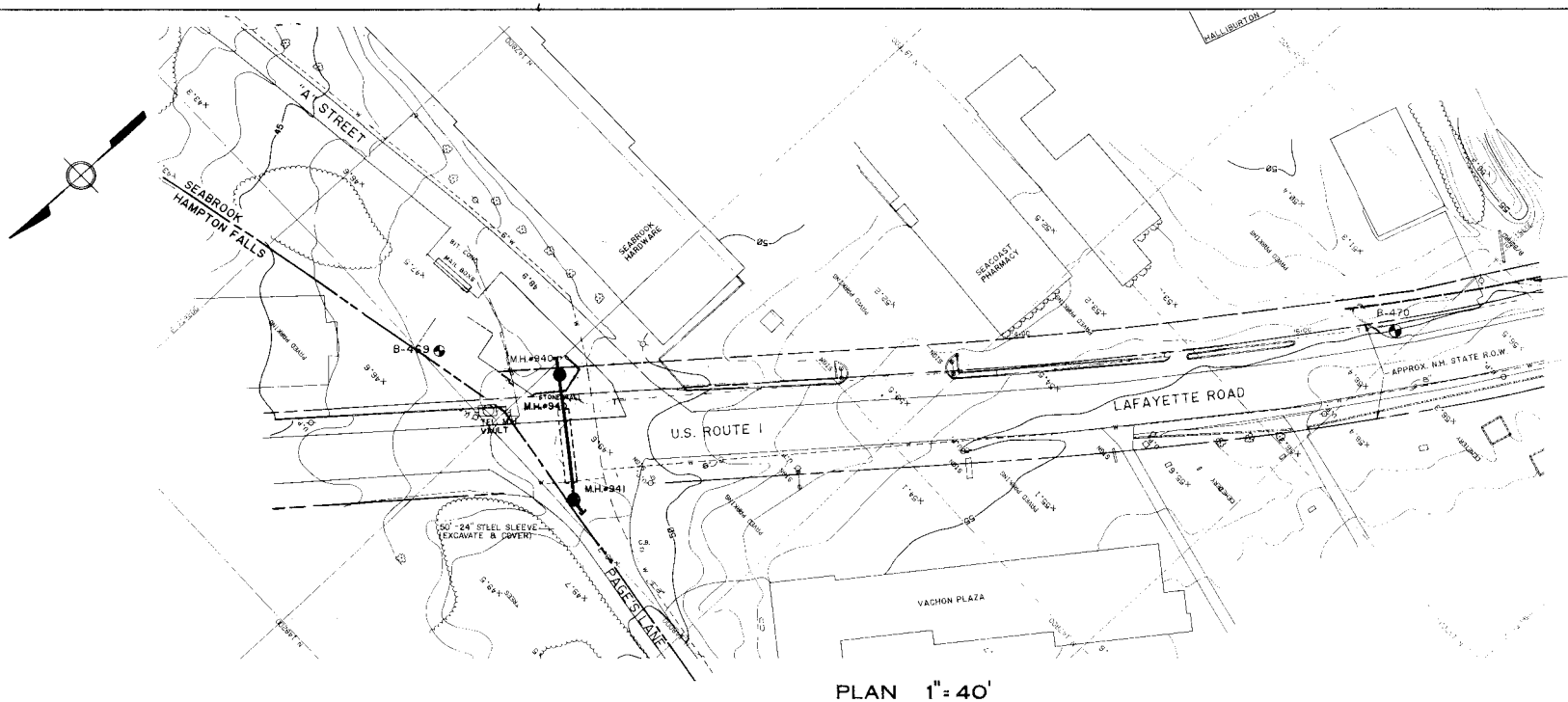
PROJECT SUPERVISOR APPROVED

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 17 OF 57



PLAN 1" = 40'

NOTE:
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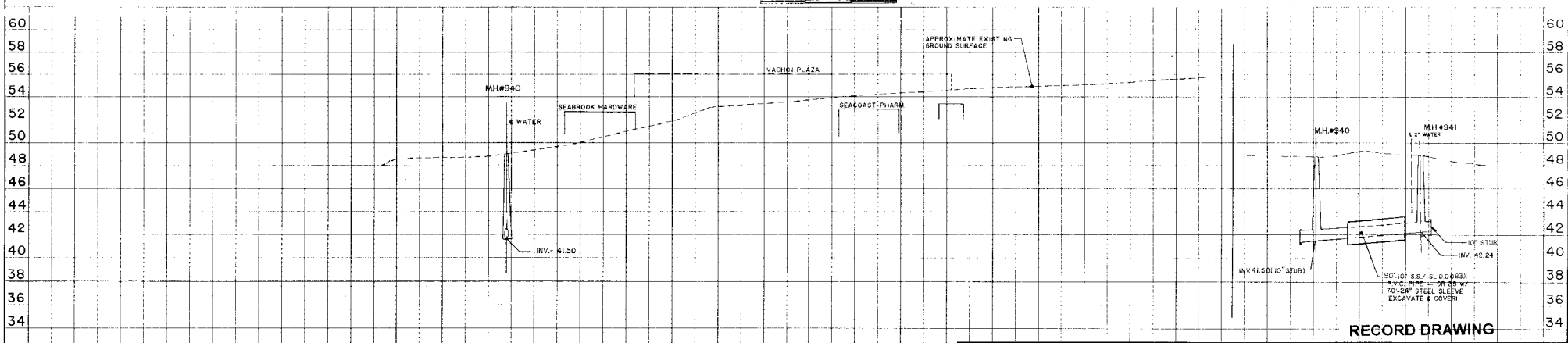


PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

3	RECORD DRAWING	BAJ	2/97	WM	BAJ	BHJ	2/97
2	REVISION BY ADDENDA	WK	12/94	JEC	BHJ	BHJ	12/94
1	REVISE RTE 1 CROSSING	DRT	7/94	JEC	BHJ	BHJ	7/94
0	ISSUED FOR APPROVAL	WM	6/92	JAH	JOE	BHJ	6/92
		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

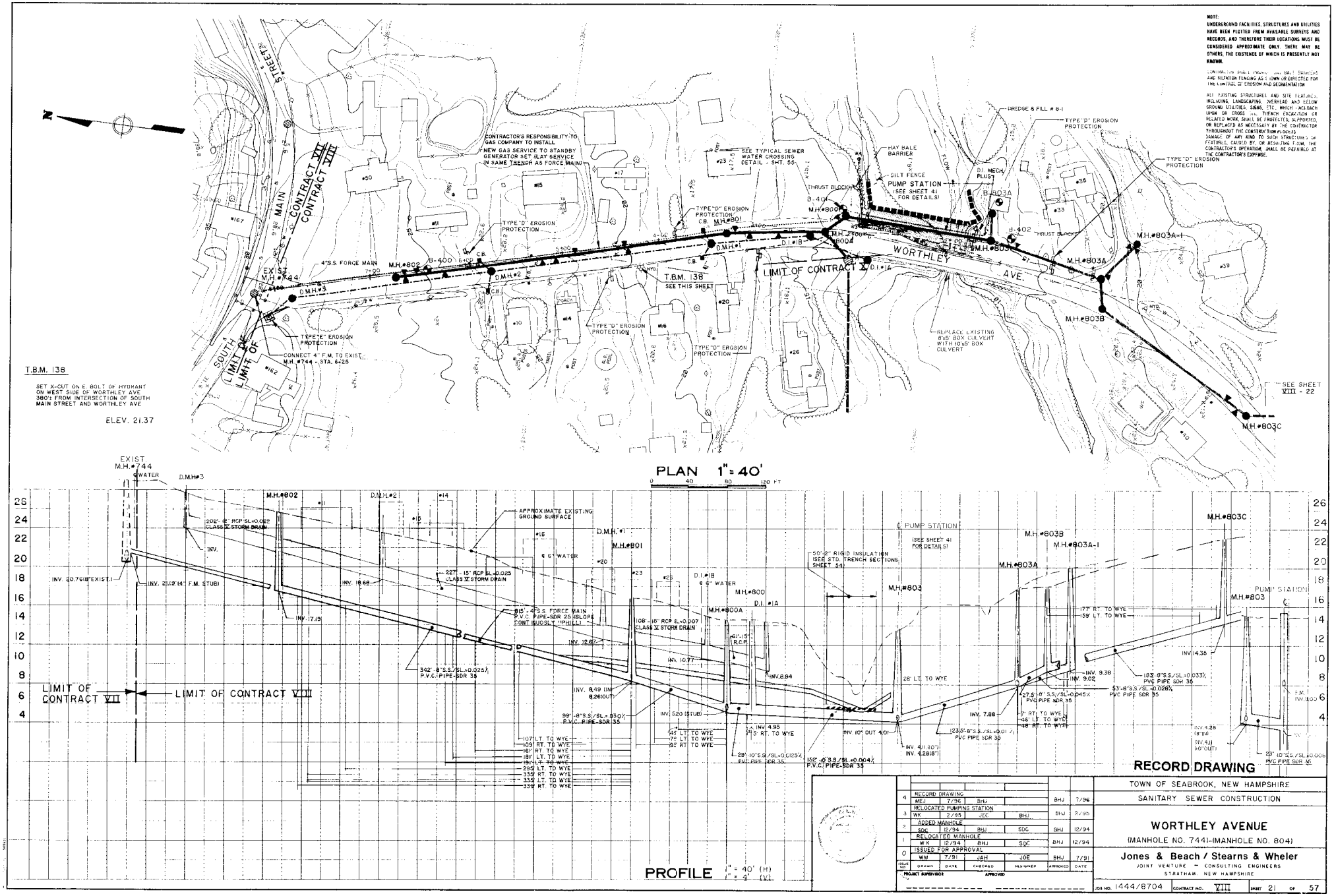
SANITARY SEWER CONSTRUCTION

U.S. ROUTE 1 - LAFAYETTE ROAD

(MANHOLE NO. 940)-(MANHOLE NO. 943)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VIII | SHEET 18 OF 57


NOTE:
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CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION
ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC. WHICH ARE DAMAGED UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PERIOD. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
T.B.M. 138
SET X-CUT ON E. BOLT OF HYDRANT ON WEST SIDE OF WORTHLEY AVE. 380'± FROM INTERSECTION OF SOUTH MAIN STREET AND WORTHLEY AVE.
ELEV. 21.37
SOUTH MAIN STREET
CONTRACT VII
CONTRACT VIII
LIMIT OF CONTRACT VII
CONTRACTOR'S RESPONSIBILITY TO GAS COMPANY TO INSTALL NEW GAS SERVICE TO STANDBY GENERATOR SET (LAY SERVICE IN SAME TRENCH AS FORCE MAIN)
SEE TYPICAL SEWER WATER CROSSING DETAIL - SHT. 55
TYPE "D" EROSION PROTECTION
C.B. M.H.#801
HAY BALE BARRIER
SILT FENCE
PUMP STATION (SEE SHEET 41 FOR DETAILS)
DREDGE & FILL # 8-I
D.I. MECH. PLUG
THRUST BLOCK
B-403A
B-402
B-401
M.H.#800
M.H.#800A
M.H.#803
M.H.#803A
M.H.#803A-1
M.H.#803B
M.H.#803C
WORTHLEY AVE.
LIMIT OF CONTRACT VIII
EXIST. M.H.#744
4" S.S. FORCE MAIN
M.H.#802
B-400
D.M.H.#1
D.M.H.#2
D.M.H.#3
T.B.M. 138 SEE THIS SHEET
CONNECT 4" F.M. TO EXIST. M.H. #744 - STA. 6+28
REPLACE EXISTING 8'x5' BOX CULVERT WITH 10'x5' BOX CULVERT
SEE SHEET VIII - 22

PLAN 1" = 40'

PROFILE 1" = 40' (H) 1" = 4' (V)

4	RECORD DRAWING	MEJ	7/96	BHJ	BHJ	7/96
3	RELOCATED PUMPING STATION	WK	2/95	JEC	BHJ	BHJ	2/95
2	ADDED MANHOLE	SDC	12/94	BHJ	SDC	BHJ	12/94
1	RELOCATED MANHOLE	WK	12/94	BHJ	SDC	BHJ	12/94
0	ISSUED FOR APPROVAL	WM	7/91	JAH	JOE	BHJ	7/91
		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

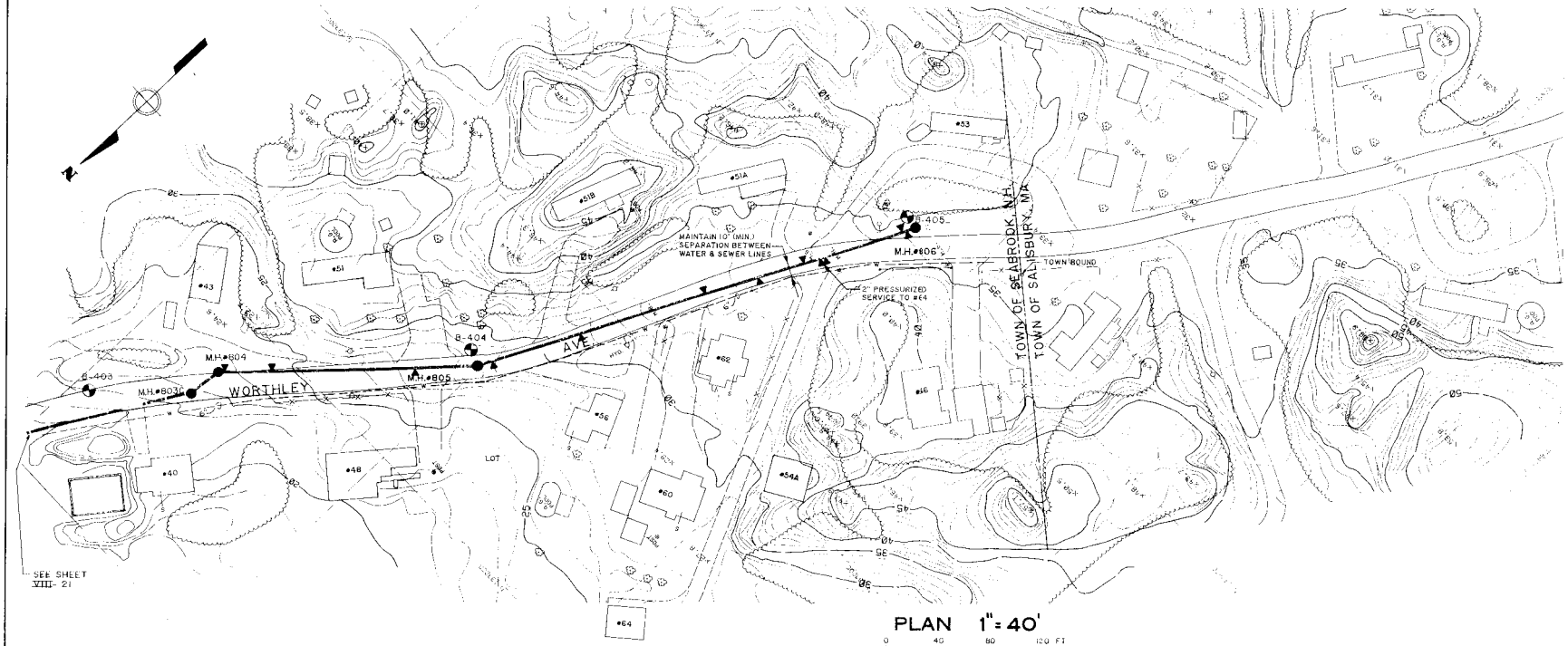
SANITARY SEWER CONSTRUCTION

WORTHLEY AVENUE

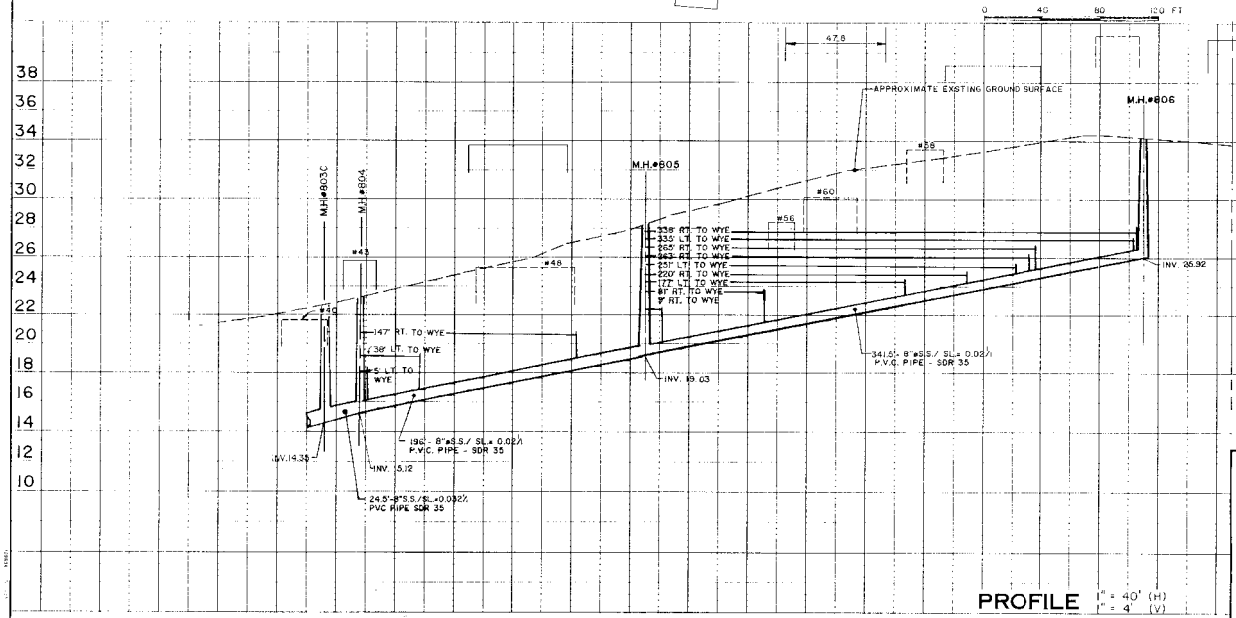
(MANHOLE NO. 744)-(MANHOLE NO. 804)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 21 OF 57



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES SIGNS, ETC. WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING	NEJ	7/96	BHJ		BHJ	7/96
0	ISSUED FOR APPROVAL	WM	7/91	JAH	JOE	BHJ	7/91

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

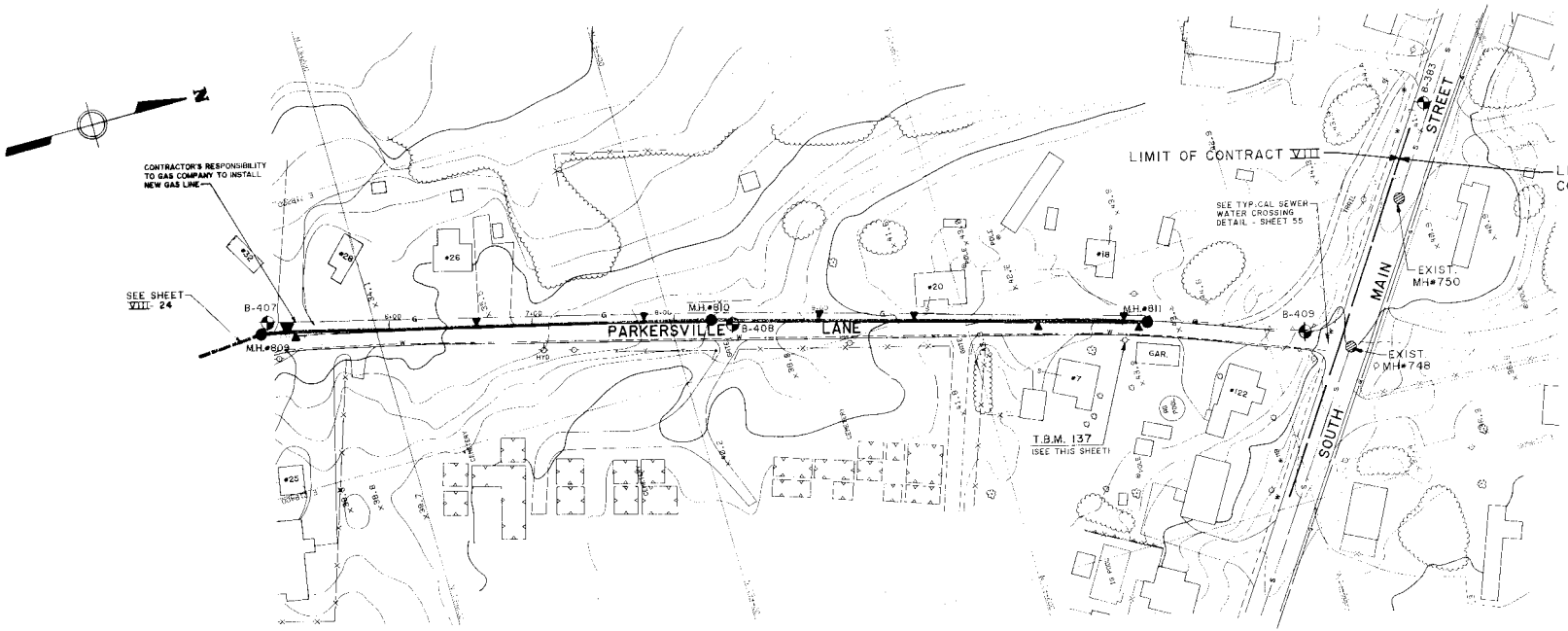
SANITARY SEWER CONSTRUCTION

WORTHLEY AVENUE

(MANHOLE NO. 804)-(MANHOLE NO. 806)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 22 OF 57



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

INSTALLATION OF PROPER BARRICADES AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

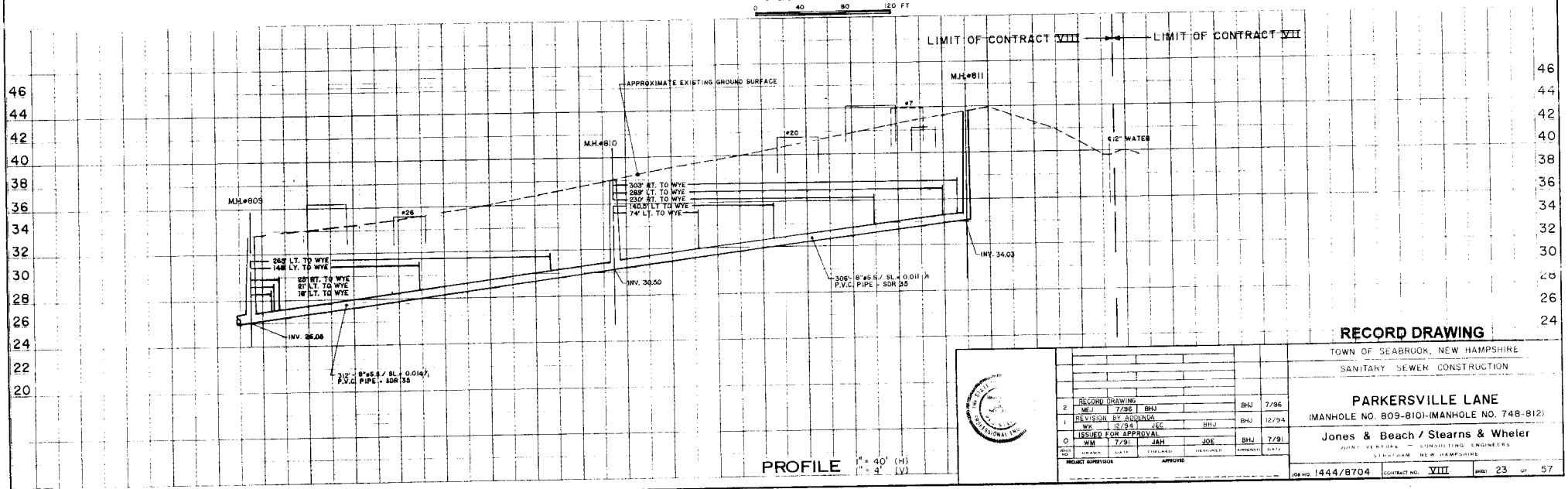
ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REMOVED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

T.B.M. 137

SIXTY PERRY N WEST FACE OF UTILITY POLE ON EAST SIDE OF PARKERSVILLE LANE, APPROX. 100'± FROM INTERSECTION OF SOUTH MAIN STREET & PARKERSVILLE LANE (NAIL 1' UP FROM GROUND)

ELEV. 44.55

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING	MEJ	7/96	BHJ		BHJ	7/96
1	REVISION BY ADDENDA	WM	12/94	JEC	BHJ	BHJ	12/94
0	ISSUED FOR APPROVAL	WM	7/91	JAH	JOE	BHJ	7/91

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

PARKERSVILLE LANE

(MANHOLE NO. 809-810)-(MANHOLE NO. 748-812)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VIII | SHEET 23 OF 57

NOTE:
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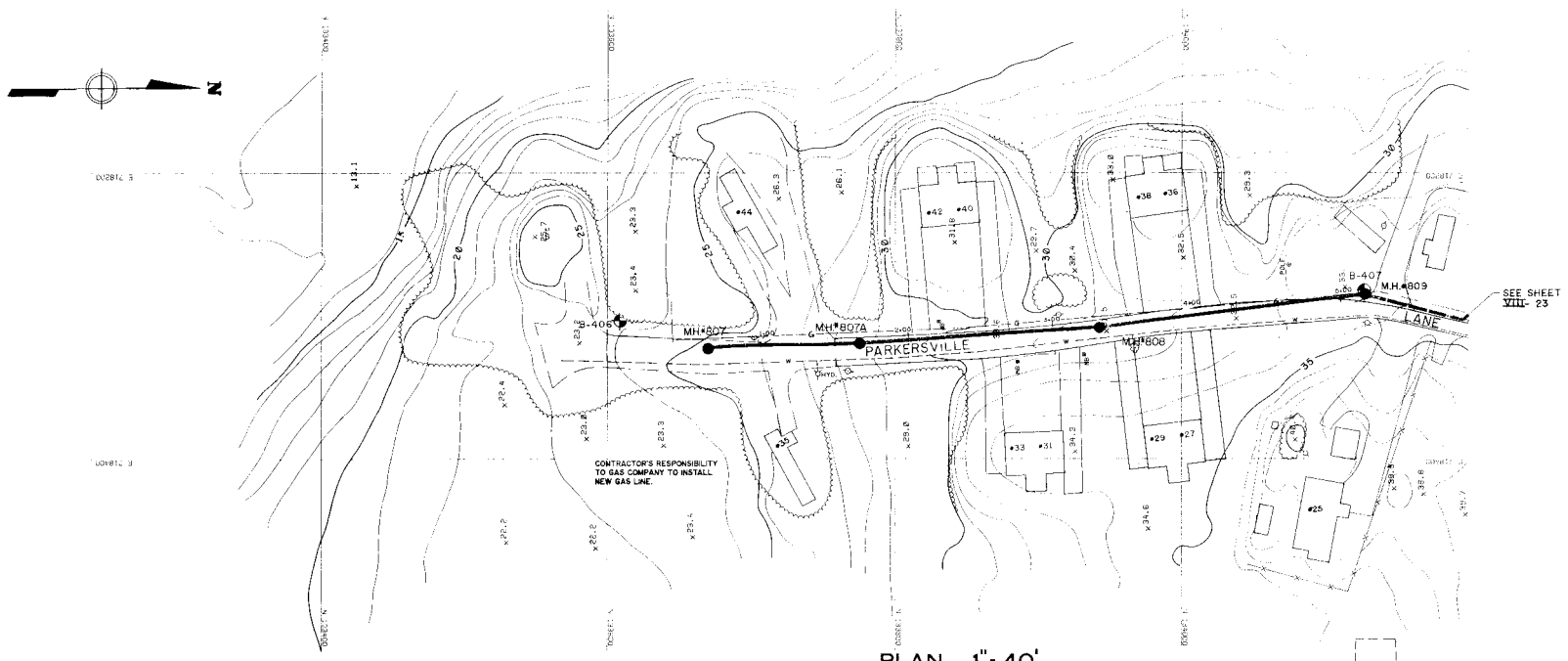
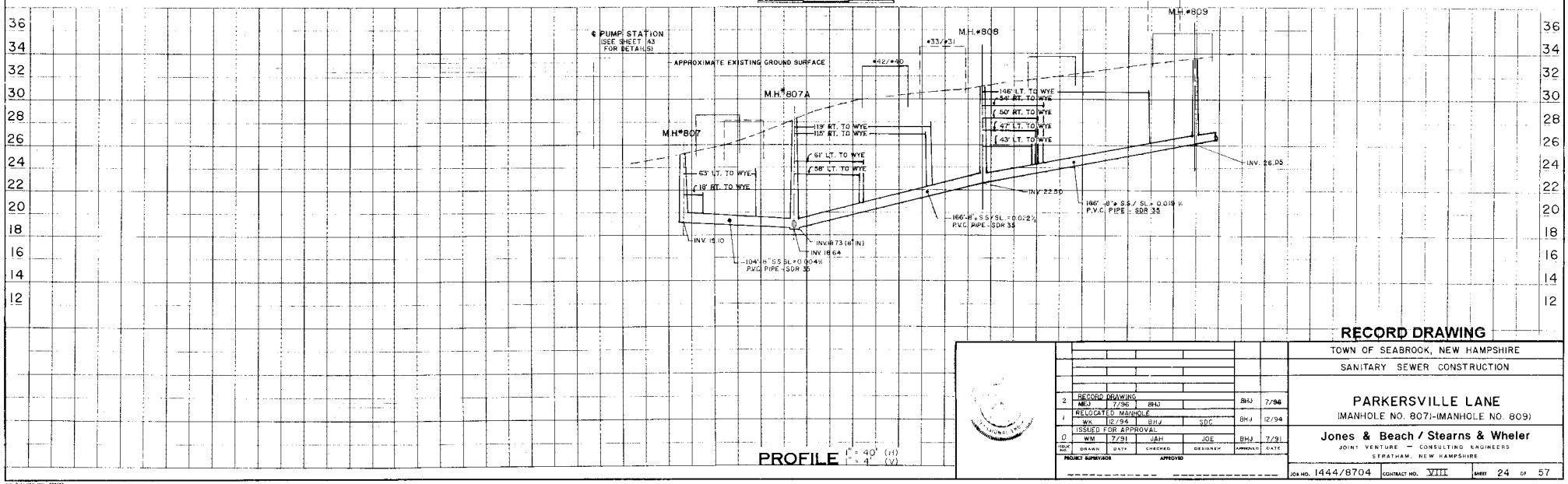
CONTRACTOR SHALL PROVIDE [illegible] AND SILTATION FENCING AS SHOWN OR DETAILED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING	MEJ	7/96	BHJ		BHJ	7/96
1	RELOCATED MANHOLE	WK	12/94	BHJ	SDC	BHJ	12/94
0	ISSUED FOR APPROVAL	WM	7/91	JAH	JOE	BHJ	7/91

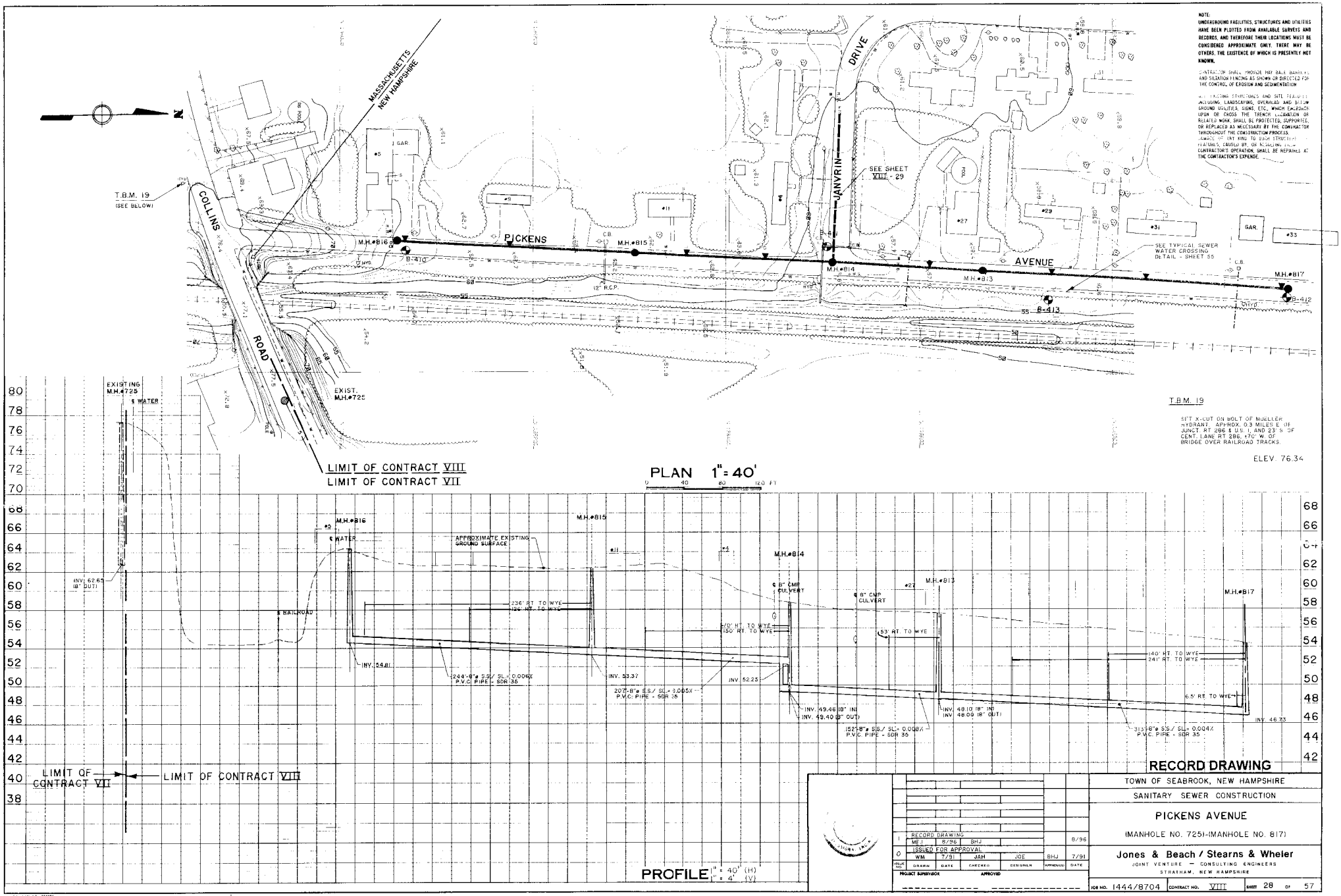
PROJECT SUPERVISOR _____ APPROVED _____

PARKERSVILLE LANE

(MANHOLE NO. 807)-(MANHOLE NO. 809)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 24 OF 57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MASSACHUSETTS
NEW HAMPSHIRE
T.B.M. 19
(SEE BELOW)
COLLINS ROAD
PICKENS AVENUE
JANVRIN DRIVE
SEE SHEET VIII - 29
SEE TYPICAL SEWER WATER CROSSING DETAIL - SHEET 55
M.H.#816
M.H.#815
M.H.#814
M.H.#813
M.H.#817
B-410
B-412
B-413
12" R.C.P.
EXIST. M.H.#725
LIMIT OF CONTRACT VIII
LIMIT OF CONTRACT VII
PLAN 1" = 40'
0 40 80 120 FT
T.B.M. 19
SET X-CUT ON BOLT OF MUELLER HYDRANT, APPROX. 0.3 MILES E. OF JUNCT. RT 286 & U.S. 1, AND 23' S. OF CENT. LANE RT 286, +70' W. OF BRIDGE OVER RAILROAD TRACKS.
ELEV. 76.34
EXISTING M.H.#725
℄ WATER
INV. 62.65 (8" OUT)
℄ RAILROAD
APPROXIMATE EXISTING GROUND SURFACE
236' RT. TO WYE
126' RT. TO WYE
244'-8"ø S.S./ SL.= 0.006X P.V.C. PIPE - SDR 35
INV. 54.81
INV. 53.37
207'-8"ø S.S./ SL.= 0.005X P.V.C. PIPE - SDR 35
INV. 52.25
℄ 8" CMP CULVERT
℄ 8" CMP CULVERT
470' RT. TO WYE
180' RT. TO WYE
53' RT. TO WYE
INV. 49.46 (8" IN)
INV. 49.40 (8" OUT)
INV. 48.10 (8" IN)
INV. 48.09 (8" OUT)
152'-8"ø S.S./ SL.= 0.008X P.V.C. PIPE - SDR 35
140' RT. TO WYE
241' RT. TO WYE
65' RT. TO WYE
INV. 46.73
313'-8"ø S.S./ SL.= 0.004X P.V.C. PIPE - SDR 35
LIMIT OF CONTRACT VII
LIMIT OF CONTRACT VIII
PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

1	RECORD DRAWING	MEJ	8/96	BHJ		8/96
0	ISSUED FOR APPROVAL	WM	7/91	JAH	JOE	BHJ 7/91
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

PICKENS AVENUE

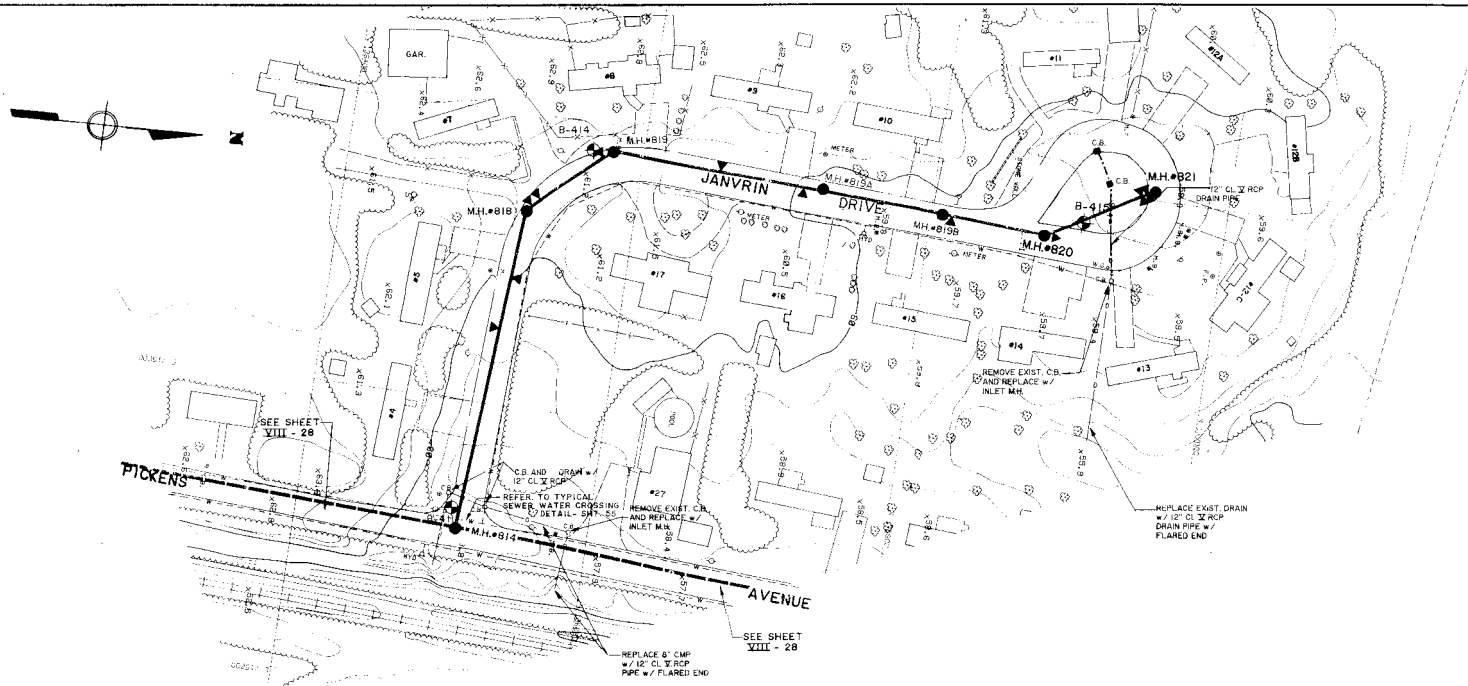
(MANHOLE NO. 725)-(MANHOLE NO. 817)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 28 OF 57


JANVRIN DRIVE
PICKERING AVENUE
M.H.#818
M.H.#819
M.H.#819A
M.H.#819B
M.H.#820
M.H.#821
M.H.#814
B-414
B-415
C.B.
GAR.
SEE SHEET VIII - 28
SEE SHEET VIII - 28
C.B. AND DRAIN w/ 12" CL V RCP
REFER TO TYPICAL SEWER WATER CROSSING DETAIL - SHT. 55
REMOVE EXIST. C.B. AND REPLACE w/ INLET MH.
REMOVE EXIST. C.B. AND REPLACE w/ INLET MH.
REPLACE EXIST. DRAIN w/ 12" CL V RCP DRAIN PIPE w/ FLARED END
12" CL V RCP DRAIN PIPE
REPLACE 8" CMP w/ 12" CL V RCP PIPE w/ FLARED END

NOTE:
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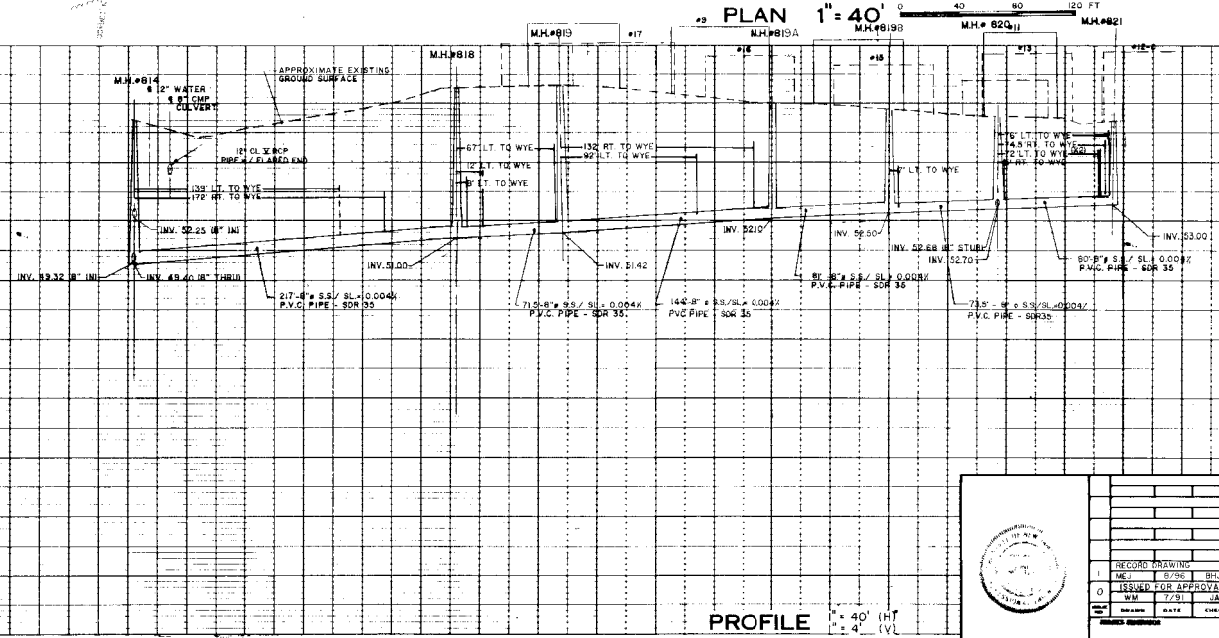
PLAN 1" = 40' (0, 40, 80, 120 FT)


M.H.#814
6 12" WATER & 8" CMP CULVERT
APPROXIMATE EXISTING GROUND SURFACE
M.H.#818
M.H.#819
M.H.#819A
M.H.#819B
M.H.#820
M.H.#821
12" CL V RCP PIPE w/ FLARED END
139' LT. TO WYE
172' RT. TO WYE
67' LT. TO WYE
132' RT. TO WYE
92' LT. TO WYE
9' LT. TO WYE
8' LT. TO WYE
6' LT. TO WYE
45' RT. TO WYE
72' LT. TO WYE
87' RT. TO WYE
INV. 52.25 (8" IN)
INV. 49.32 (8" IN)
INV. 49.40 (8" THRU)
INV. 51.00
INV. 51.42
INV. 52.10
INV. 52.50
INV. 52.68 (8" STUB)
INV. 52.70
INV. 53.00
217'-8" ø S.S./ SL.= 0.004% P.V.C. PIPE - SDR 35
71.5'-8" ø S.S./ SL.= 0.004% P.V.C. PIPE - SDR 35
144'-8" ø S.S./SL.= 0.004% PVC PIPE - SDR 35
8'-8" ø S.S./ SL.= 0.004% P.V.C. PIPE - SDR 35
73.5'-8" ø S.S./SL.=0.004% P.V.C. PIPE - SDR35
60'-8" ø S.S./ SL.= 0.004% P.V.C. PIPE - SDR 35

PROFILE 1" = 40' (H) 1" = 4' (V)

62 60 58 56 54 52 50 48 46 44 42 40 38 36

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

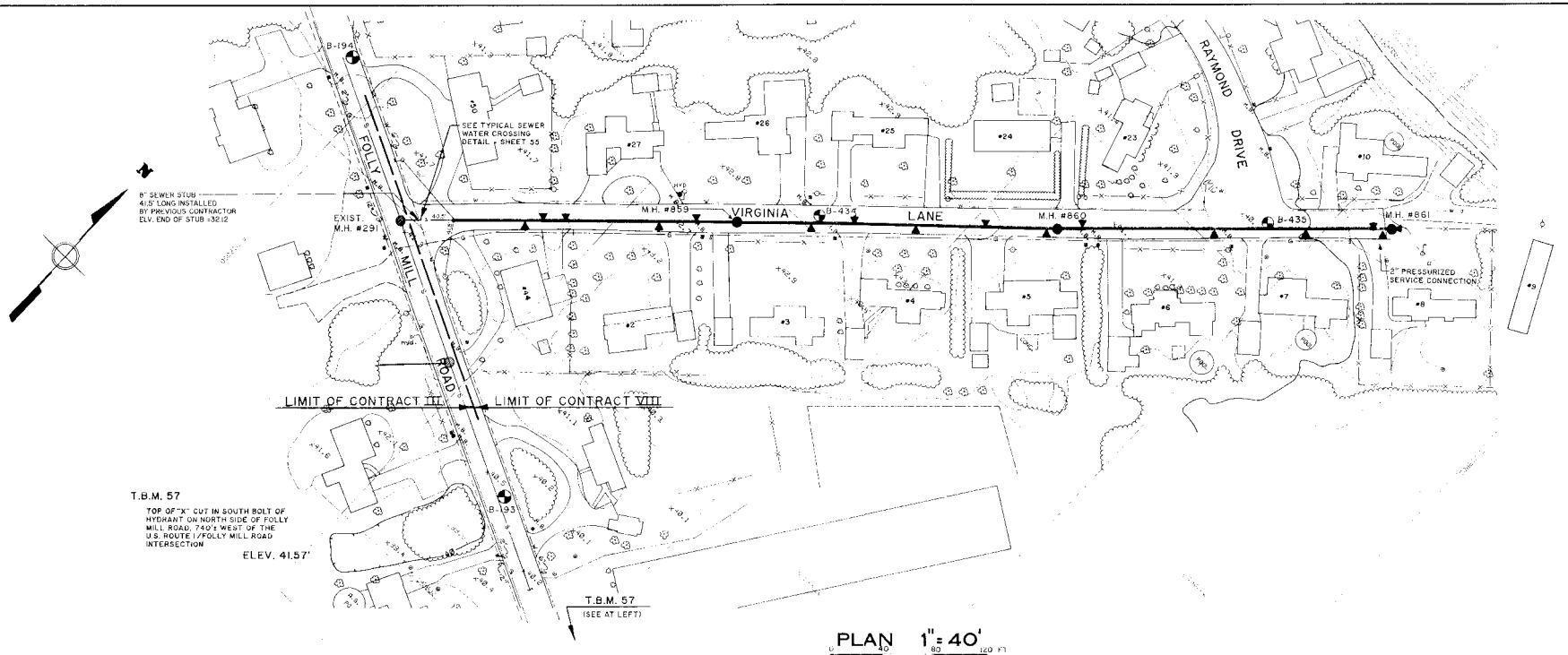
JANVRIN DRIVE

(MANHOLE NO. 814)-(MANHOLE NO. 821)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING	MEJ	8/96	BHJ		BHJ	8/96
0	ISSUED FOR APPROVAL	WM	7/91	JAH	JOE	BHJ	7/91

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 29 OF 57



PLAN 1" = 40'

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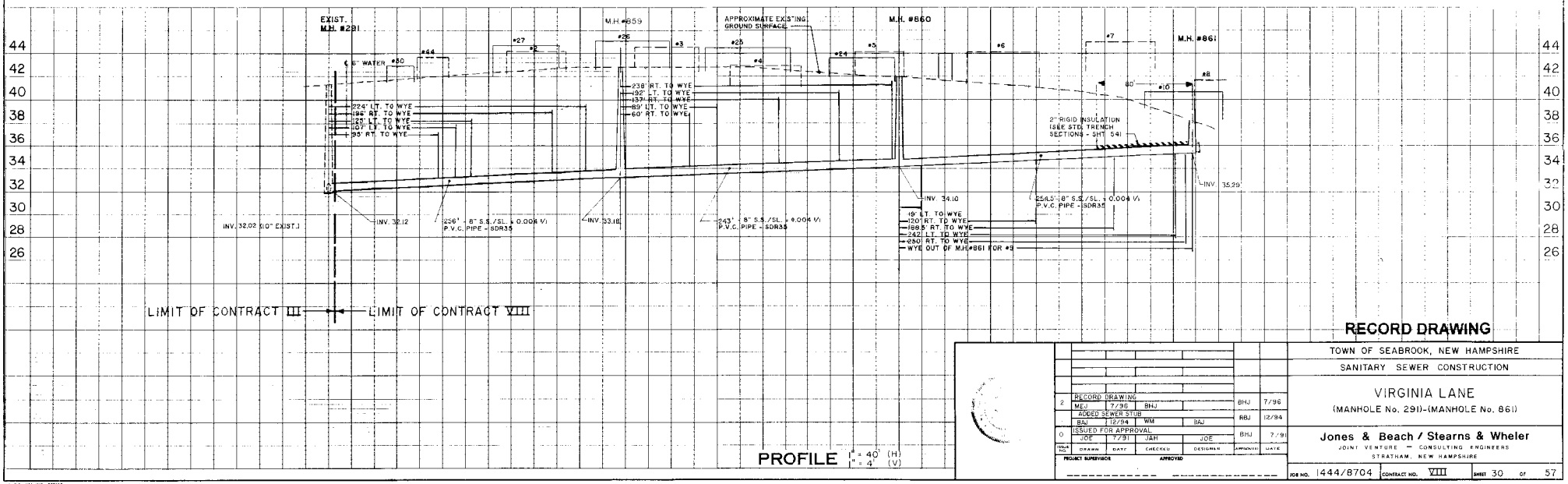
CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL UTILITIES, STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, WHICH ENCOUNTER UNDERGROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.


EXIST. M.H. #291
M.H. #859
M.H. #860
M.H. #861
APPROXIMATE EXISTING GROUND SURFACE
6" WATER
238' RT. TO WYE
92' LT. TO WYE
137' RT. TO WYE
89' LT. TO WYE
60' RT. TO WYE
224' LT. TO WYE
196' RT. TO WYE
223' LT. TO WYE
107' LT. TO WYE
35' RT. TO WYE
2" RIGID INSULATION (SEE STD. TRENCH SECTIONS - SHT. 54)
INV. 32.02 (10" EXIST.)
INV. 32.12
256' - 8" S.S./SL. = 0.004 V/I P.V.C. PIPE - SDR35
INV. 33.18
243' - 8" S.S./SL. = 0.004 V/I P.V.C. PIPE - SDR35
INV. 34.10
49' LT. TO WYE
120' RT. TO WYE
188.5' RT. TO WYE
242' LT. TO WYE
260' RT. TO WYE
WYE OUT OF M.H. #861 FOR #9
256.0' - 8" S.S./SL. = 0.004 V/I P.V.C. PIPE - SDR35
INV. 35.29
LIMIT OF CONTRACT III
LIMIT OF CONTRACT VIII

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING	MEJ	7/96	BHJ		BHJ	7/96
1	ADDED SEWER STUB	BAJ	12/94	WM	BAJ	BBJ	12/94
0	ISSUED FOR APPROVAL	JOE	7/91	JAH	JOE	BHJ	7/91

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

VIRGINIA LANE

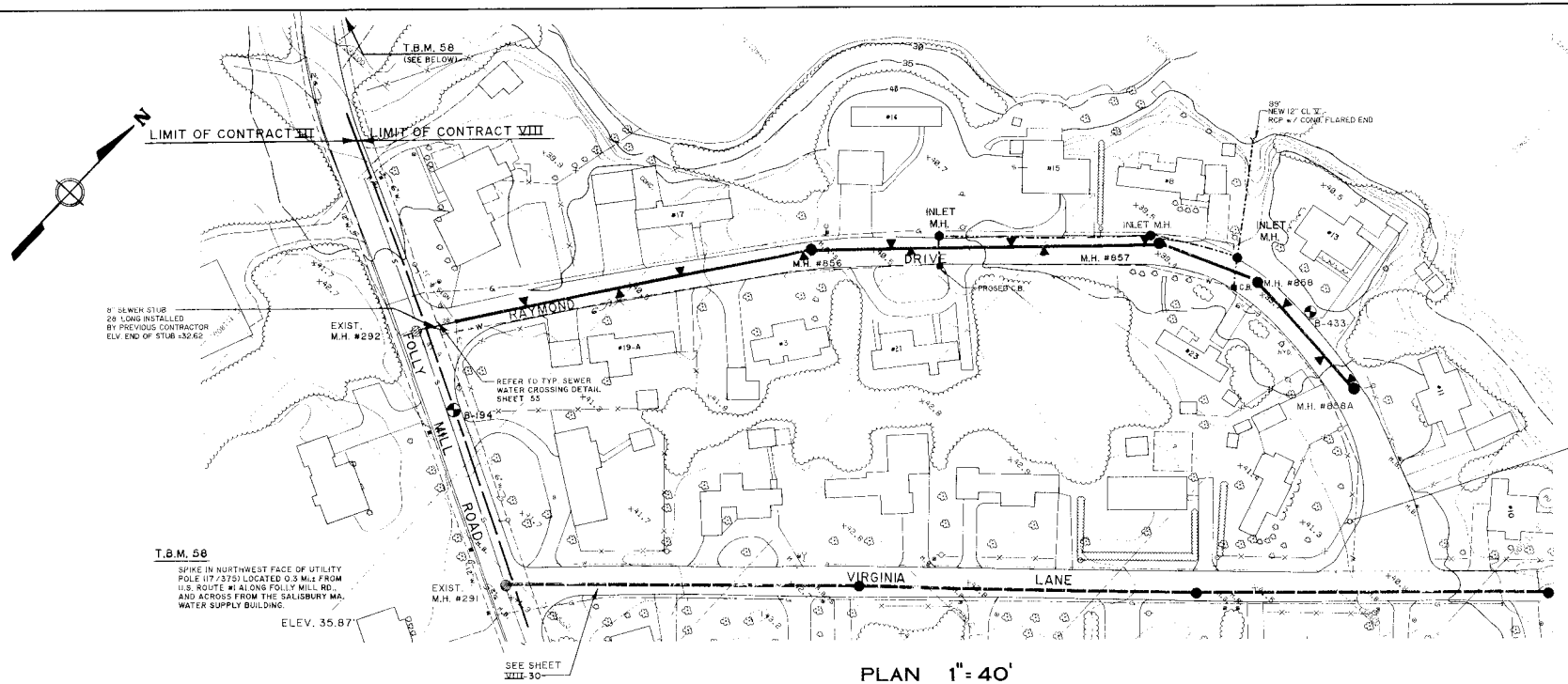
(MANHOLE No. 291)-(MANHOLE No. 861)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VIII | SHEET 30 of 57

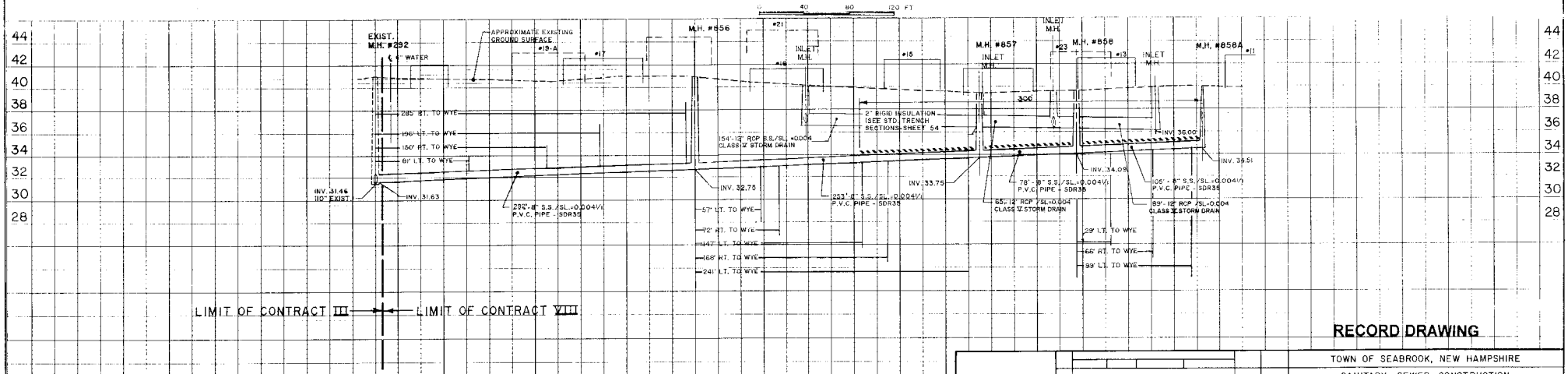


NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL EXISTING STRUCTURES AND SITE FEATURES INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR ASSEMBLY WORK SHALL BE PROTECTED, SUPPORTED OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING				BHJ	6/96
	MEJ	6/96	BHJ			
	ADDED SEWER STUB				RBJ	12/94
	RAJ	12/94	WM	RBJ		
0	ISSUED FOR APPROVAL				BHJ	7/91
	JOE	6/91	JAH	JOE/JAH		

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

RAYMOND DRIVE

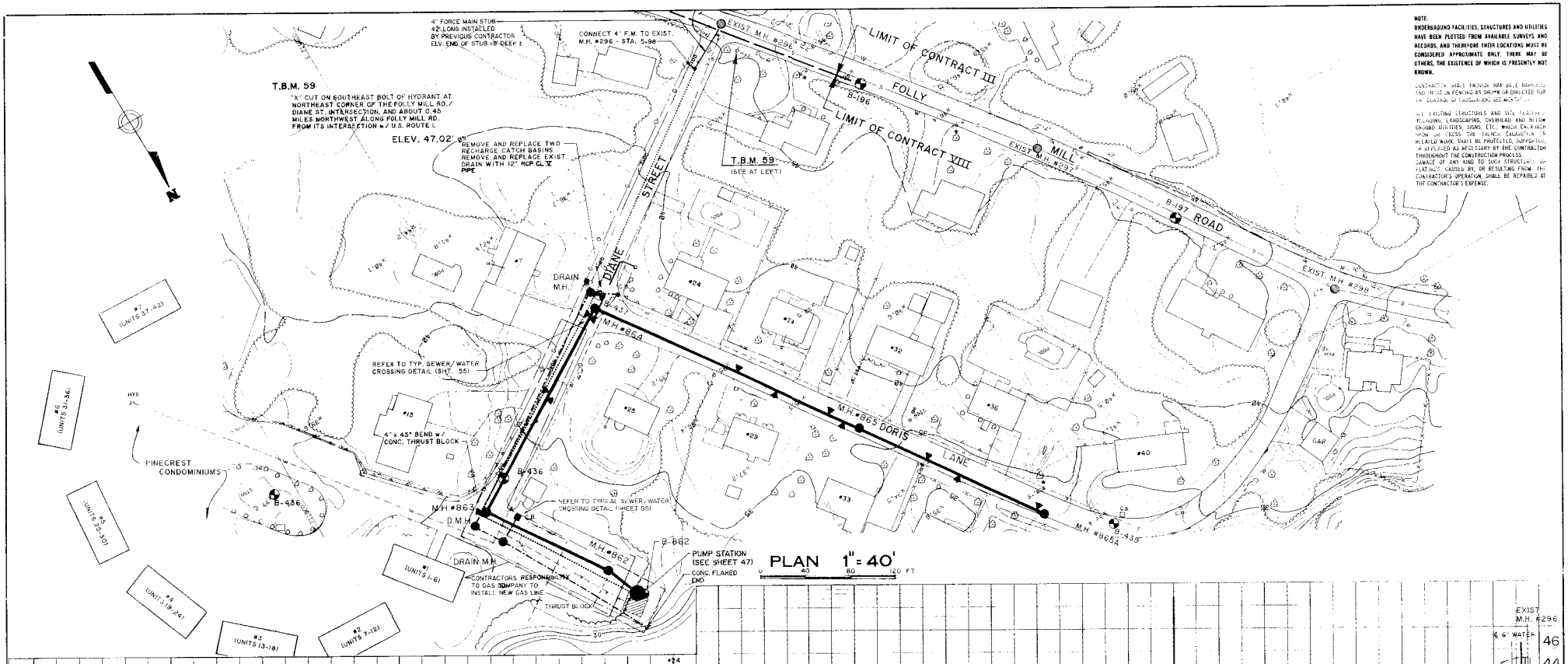
(MANHOLE No. 292)-(MANHOLE No. 858A)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

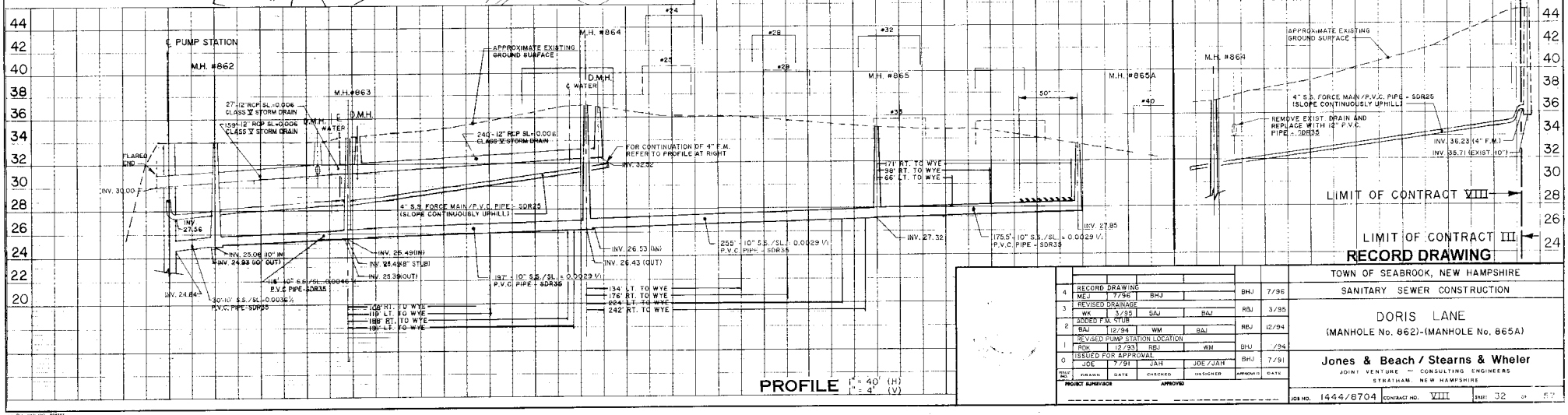
JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 31 OF 57


T.B.M. 59
"X" CUT ON SOUTHEAST BOLT OF HYDRANT AT NORTHEAST CORNER OF THE FOLLY MILL RD./ DIANE ST. INTERSECTION, AND ABOUT 0.45 MILES NORTHWEST ALONG FOLLY MILL RD. FROM ITS INTERSECTION w/ U.S. ROUTE 1.
ELEV. 47.02'
4" FORCE MAIN STUB 42'-LONG INSTALLED BY PREVIOUS CONTRACTOR ELEV. END OF STUB = 8'-0" ±
CONNECT 4" F.M. TO EXIST. M.H. #296 - STA. 5+98
EXIST. M.H. #296
LIMIT OF CONTRACT III
FOLLY MILL
LIMIT OF CONTRACT VIII
EXIST. M.H. #297
B-197 ROAD
EXIST. M.H. #298
T.B.M. 59 (SEE AT LEFT)
REMOVE AND REPLACE TWO RECHARGE CATCH BASINS REMOVE AND REPLACE EXIST. DRAIN WITH 12" RCP CL V PIPE
DIANE STREET
DRAIN M.H.
M.H. #864
REFER TO TYP. SEWER/WATER CROSSING DETAIL (SHT. 55)
4" x 45° BEND w/ CONC. THRUST BLOCK
M.H. #865 DORIS LANE
M.H. #865A
PINECREST CONDOMINIUMS
B-436
M.H. #863
D.M.H.
C.B.
REFER TO TYPICAL SEWER/WATER CROSSING DETAIL (SHEET 55)
B-862
M.H. #862
PUMP STATION (SEE SHEET 47)
CONC. FLARED END
CONTRACTORS RESPONSIBILITY TO GAS COMPANY TO INSTALL NEW GAS LINE
THRUST BLOCK
DRAIN M.H.
#1 (UNITS 1-6)
#2 (UNITS 7-12)
#3 (UNITS 13-18)
#4 (UNITS 19-24)
#5 (UNITS 25-30)
#6 (UNITS 31-36)
#7 (UNITS 37-42)
PLAN 1" = 40'
0 40 80 120 FT

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE AND MAINTAIN BARRICADES AND/OR FENCING AS SHOWN OR DIRECTED FOR THE DURATION OF EXCAVATION AND RESTORATION.

ALL EXISTING STRUCTURES AND SITE FEATURES INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH CONFLICT WITH OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED OR RELOCATED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.


℄ PUMP STATION
M.H. #862
M.H. #863
D.M.H.
℄ WATER
M.H. #864
APPROXIMATE EXISTING GROUND SURFACE
M.H. #865
M.H. #865A
27"-12" RCP SL.=0.006 CLASS V STORM DRAIN
159'-12" RCP SL.=0.006 CLASS V STORM DRAIN
240'-12" RCP SL.=0.006 CLASS V STORM DRAIN
"FLARED END"
(INV. 30.00 ±)
INV. 27.56
INV. 25.08 30" IN
INV. 24.93 30" OUT)
INV. 24.84
INV. 25.49(IN)
INV. 25.49(8" STUB)
INV. 25.39(OUT)
18" 10" S.S./SL.=0.0046 P.V.C. PIPE - SDR35
30"-10" S.S./SL.=0.0035 P.V.C. PIPE - SDR35
4" S.S. FORCE MAIN / P.V.C. PIPE - SDR25 (SLOPE CONTINUOUSLY UPHILL)
FOR CONTINUATION OF 4" F.M. REFER TO PROFILE AT RIGHT
INV. 32.32
197'-10" S.S./SL.=0.0029 V.I. P.V.C. PIPE - SDR35
INV. 26.53 (IN)
INV. 26.43 (OUT)
255'-10" S.S./SL.=0.0029 V.I. P.V.C. PIPE - SDR35
INV. 27.32
(175.5'-10" S.S./SL.=0.0029 V.I. P.V.C. PIPE - SDR35
INV. 27.85
171' RT. TO WYE
98' RT. TO WYE
66' LT. TO WYE
134' LT. TO WYE
176' RT. TO WYE
224' LT. TO WYE
242' RT. TO WYE
108' RT. TO WYE
110' LT. TO WYE
188' RT. TO WYE
191' LT. TO WYE
50'
EXIST. M.H. #296
℄ 6" WATER
APPROXIMATE EXISTING GROUND SURFACE
4" S.S. FORCE MAIN / P.V.C. PIPE - SDR25 (SLOPE CONTINUOUSLY UPHILL)
REMOVE EXIST. DRAIN AND REPLACE WITH 12" P.V.C. PIPE - SDR35
INV. 36.23 (4" F.M.)
INV. 35.7 (EXIST. 10")
LIMIT OF CONTRACT VIII
LIMIT OF CONTRACT III
RECORD DRAWING
PROFILE 1" = 40' (H) 1" = 4' (V)

4	RECORD DRAWING	MEJ	7/96	BHJ		BHJ	7/96
3	REVISED DRAINAGE	WK	3/95	SAJ	BAJ	RBJ	3/95
2	ADDED F.M. STUB	BAJ	12/94	WM	BAJ	RBJ	12/94
1	REVISED PUMP STATION LOCATION	ROK	12/93	RBJ	WM	BHJ	/94
0	ISSUED FOR APPROVAL	JOE	7/91	JAH	JOE/JAH	BHJ	7/91
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

DORIS LANE

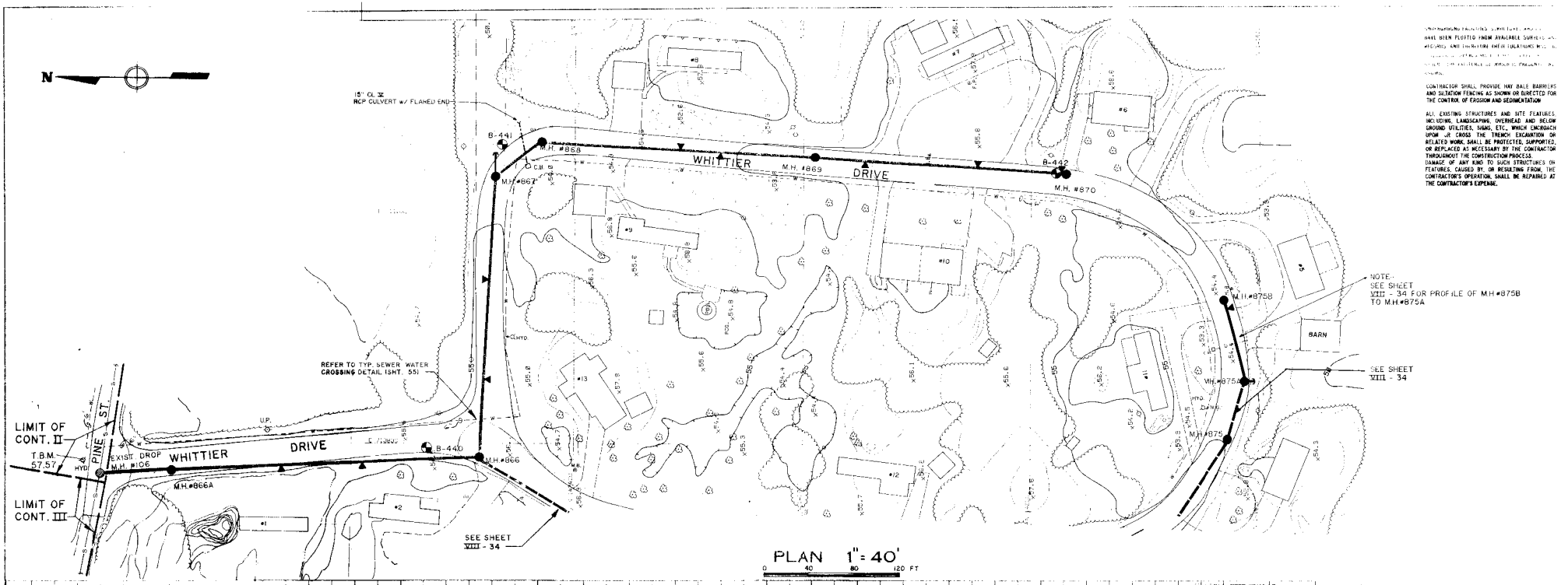
(MANHOLE No. 862)-(MANHOLE No. 865A)

Jones & Beach / Stearns & Wheler

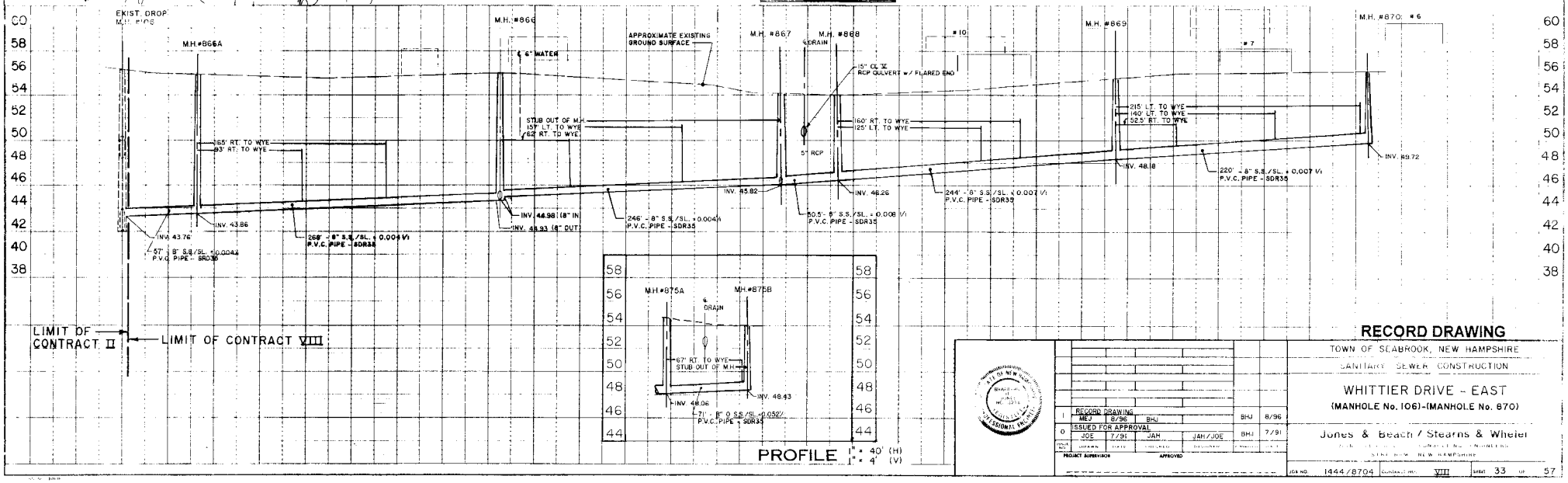
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 32 OF 67



PLAN 1" = 40'
0 40 80 120 FT


EXIST. DROP M.H. #106
M.H.#866A
M.H.#866
6" WATER
APPROXIMATE EXISTING GROUND SURFACE
M.H. #867
M.H. #868
DRAIN
15" CL IV RCP CULVERT w/ FLARED END
#10
M.H. #869
#7
M.H. #870: #6
STUB OUT OF M.H. 157' LT. TO WYE 62' RT. TO WYE
165' RT. TO WYE 93' RT. TO WYE
160' RT. TO WYE 25' LT. TO WYE
215' LT. TO WYE 140' LT. TO WYE 525' RT. TO WYE
51" RCP
INV. 43.76
INV. 43.86
57' - 8" S.S./SL. +0.004/- P.V.C. PIPE - SDR35
268' - 8" S.S./SL. + 0.004 V/ P.V.C. PIPE - SDR35
INV. 44.98 (8" IN)
INV. 48.93 (8" OUT)
246' - 8" S.S./SL. +0.004/- P.V.C. PIPE - SDR35
INV. 45.82
INV. 46.26
50.5' - 8" S.S./SL. + 0.008 V/ P.V.C. PIPE - SDR35
244' - 8" S.S./SL. + 0.007 V/ P.V.C. PIPE - SDR35
INV. 48.18
220' - 8" S.S./SL. + 0.007 V/ P.V.C. PIPE - SDR35
INV. 49.72
LIMIT OF CONTRACT II
LIMIT OF CONTRACT VIII
58 56 54 52 50 48 46 44 42 40 38

PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

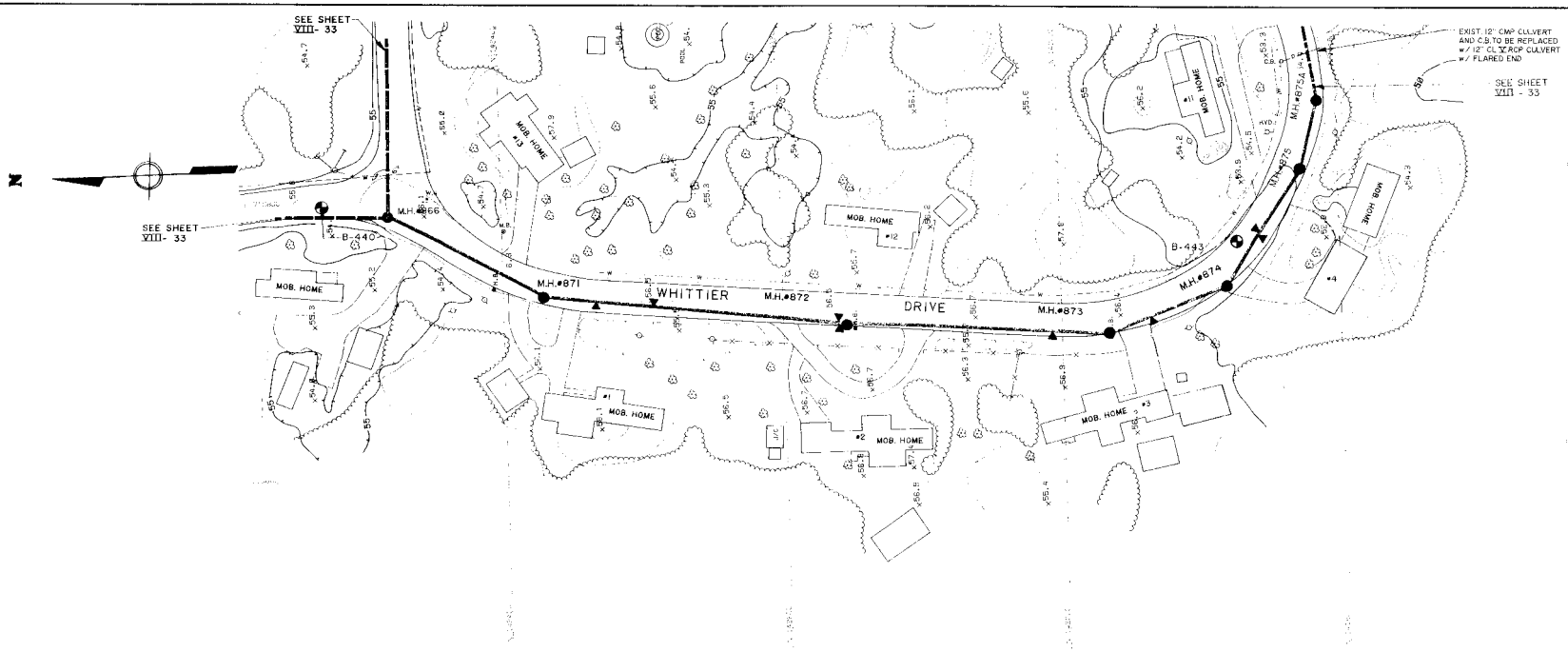
WHITTIER DRIVE - EAST
(MANHOLE No. 106)-(MANHOLE No. 870)

Jones & Beach / Stearns & Wheler

NO.	DESCRIPTION	BY	DATE
1	RECORD DRAWING	BHJ	8/96
0	ISSUED FOR APPROVAL	BHJ	7/91

	MEJ	8/96	BHJ		
	JOE	7/91	JAH	JAH/JOE	
DRAWN					
PROJECT SUPERVISOR			APPROVED		

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 33 OF 57



NOTE:
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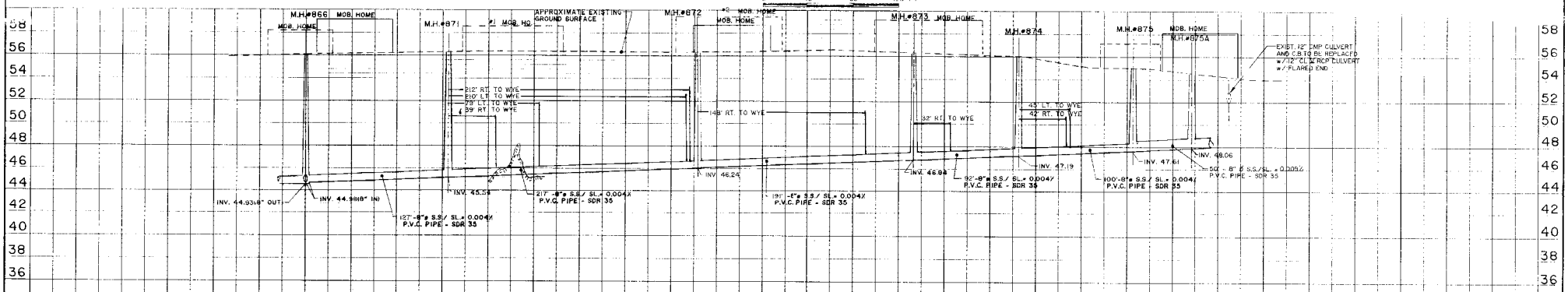
ALL EXISTING LANDSCAPING, UNDERGROUND AND OVERHEAD UTILITIES, SIGNS, ETC. WHICH ENCUMBER, ALONG OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED OR REMOVED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS

ANY DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FACILITIES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WHITTIER DRIVE - WEST

(MANHOLE NO. 866)-(MANHOLE NO. 875A)

NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING	MEJ	8/98	BHJ		BHJ	8/98
0	ISSUED FOR APPROVAL	WM	7/91	JAH	JOE	BHJ	7/91

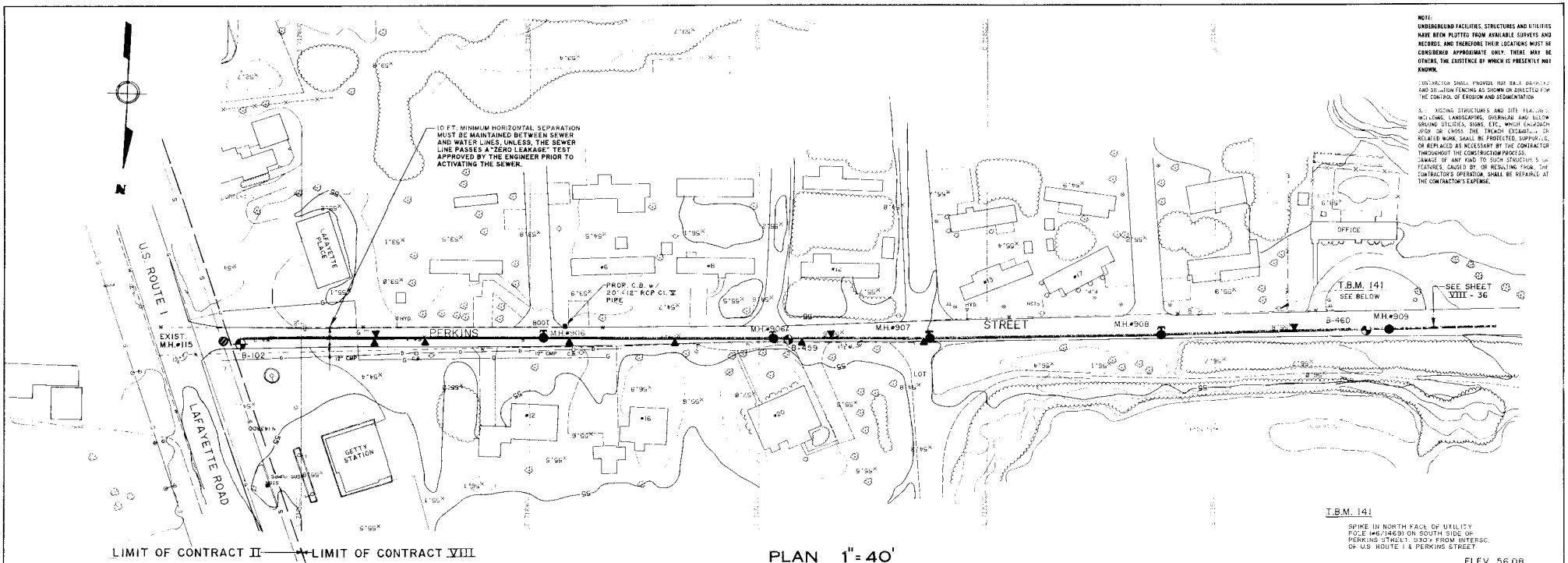
PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 34 OF 57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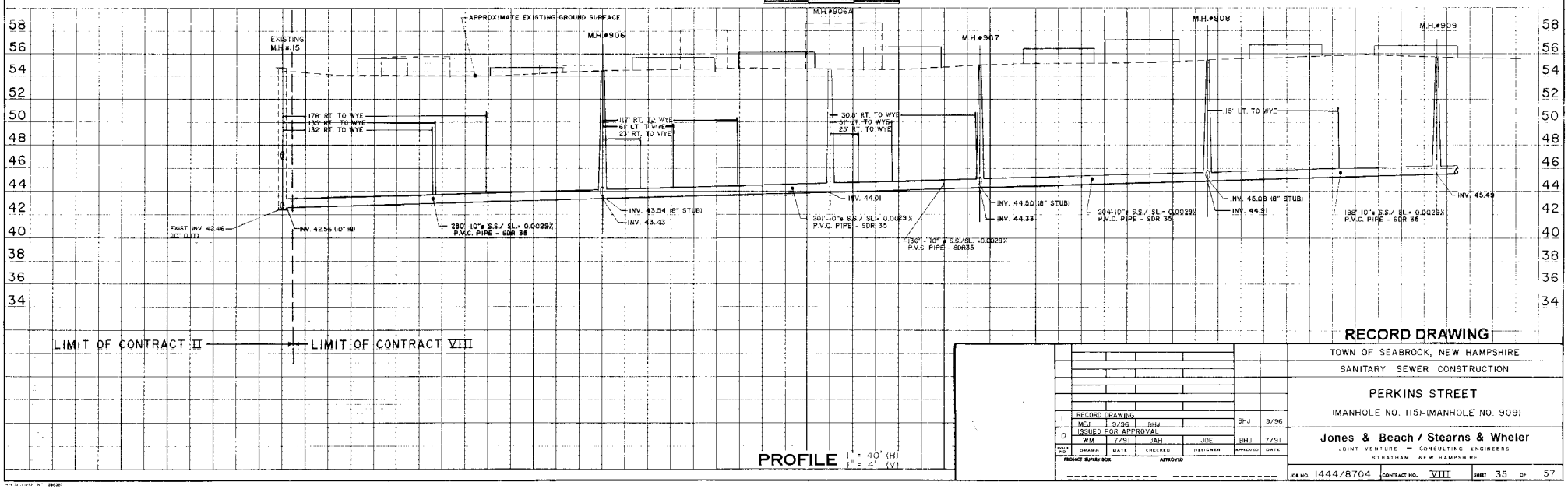
10 FT. MINIMUM HORIZONTAL SEPARATION MUST BE MAINTAINED BETWEEN SEWER AND WATER LINES, UNLESS, THE SEWER LINE PASSES A "ZERO LEAKAGE" TEST APPROVED BY THE ENGINEER PRIOR TO ACTIVATING THE SEWER.
N
U.S. ROUTE 1
LAFAYETTE PLACE
LAFAYETTE ROAD
GETTY STATION
OFFICE
PERKINS
STREET
EXIST. M.H.#115
M.H.#906
M.H.#906A
M.H.#907
M.H.#908
M.H.#909
PROP. C.B. w/ 20"x12" RCP Cl. V PIPE
B-102
B-459
B-460
T.B.M. 141
SEE BELOW
SEE SHEET VIII - 36
LIMIT OF CONTRACT II
LIMIT OF CONTRACT VIII
T.B.M. 141
SPIKE IN NORTH FACE OF UTILITY POLE (#6/14691) ON SOUTH SIDE OF PERKINS STREET, 930'± FROM INTERSC. OF U.S. ROUTE 1 & PERKINS STREET.
ELEV. 56.08
PLAN 1" = 40'
0 40 80 120 FT


APPROXIMATE EXISTING GROUND SURFACE
EXISTING M.H.#115
M.H.#906
M.H.#906A
M.H.#907
M.H.#908
M.H.#909
178' RT. TO WYE
135' RT. TO WYE
132' RT. TO WYE
117' RT. TO WYE
59' LT. TO WYE
23' RT. TO WYE
130.6' RT. TO WYE
54' LT. TO WYE
25' RT. TO WYE
115' LT. TO WYE
EXIST. INV. 42.46 (10" OUT)
INV. 42.56 (10" IN)
280'-10"± S.S./ SL= 0.0029 X P.V.C. PIPE - SDR 35
INV. 43.54 (8" STUB)
INV. 43.43
201'-10"± S.S./ SL= 0.0029 X P.V.C. PIPE - SDR 35
INV. 44.01
INV. 44.50 (8" STUB)
INV. 44.33
236'-10"± S.S./SL= 0.0029% P.V.C. PIPE - SDR35
204'-10"± S.S./ SL= 0.0029% P.V.C. PIPE - SDR 35
INV. 45.08 (8" STUB)
INV. 44.91
186'-10"± S.S./ SL= 0.0029% P.V.C. PIPE - SDR 35
INV. 45.49
LIMIT OF CONTRACT II
LIMIT OF CONTRACT VIII
PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

PERKINS STREET

(MANHOLE NO. 115)-(MANHOLE NO. 909)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	RECORD DRAWING MEJ 9/96 RHJ				BHJ	9/96
0	ISSUED FOR APPROVAL WM	7/91	JAH	JOE	BHJ	7/91

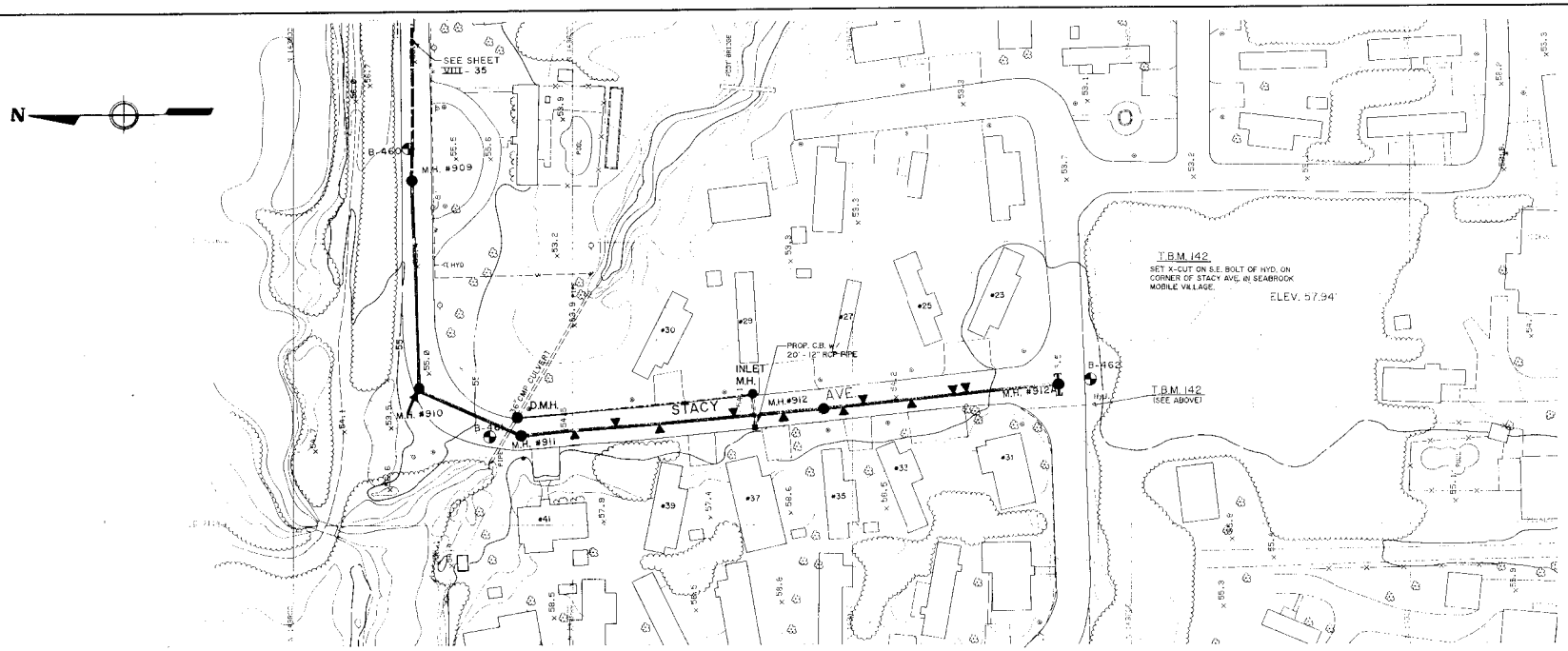
PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

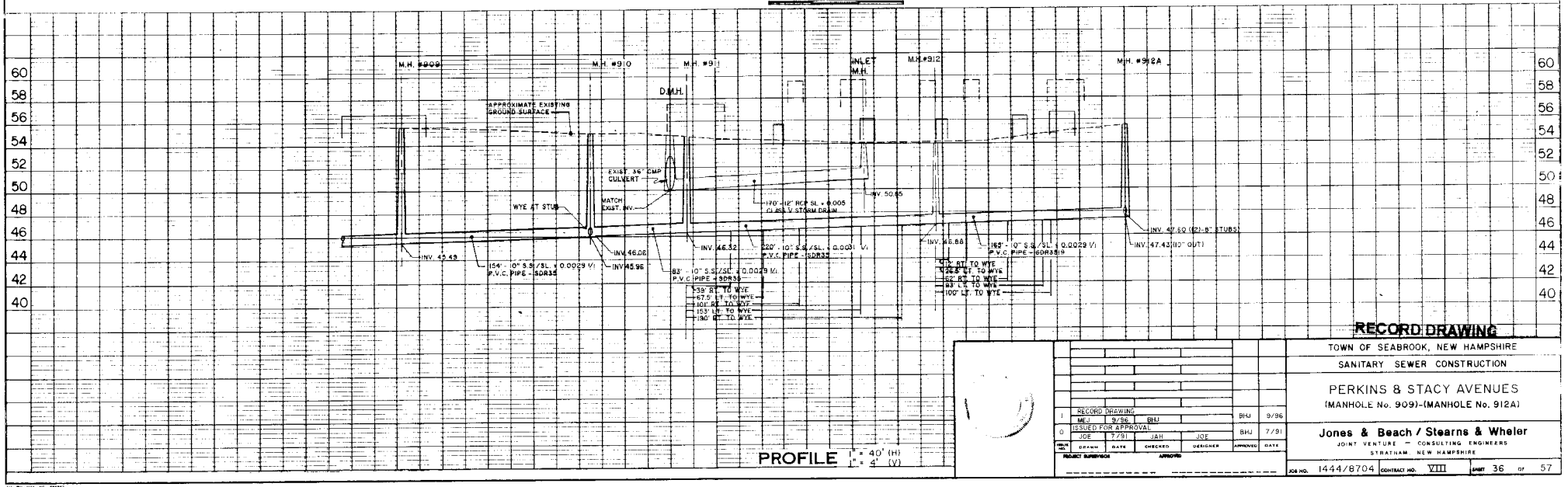
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 35 OF 57



PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

PERKINS & STACY AVENUES

(MANHOLE No. 909)-(MANHOLE No. 912A)

NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING					BHJ	9/96
	MEJ	9/96	BHJ				
	ISSUED FOR APPROVAL					BHJ	7/91
0	JOE	7/91	JAH	JOE			

PROJECT SUPERVISOR — APPROVED

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 36 OF 57

NOTE:

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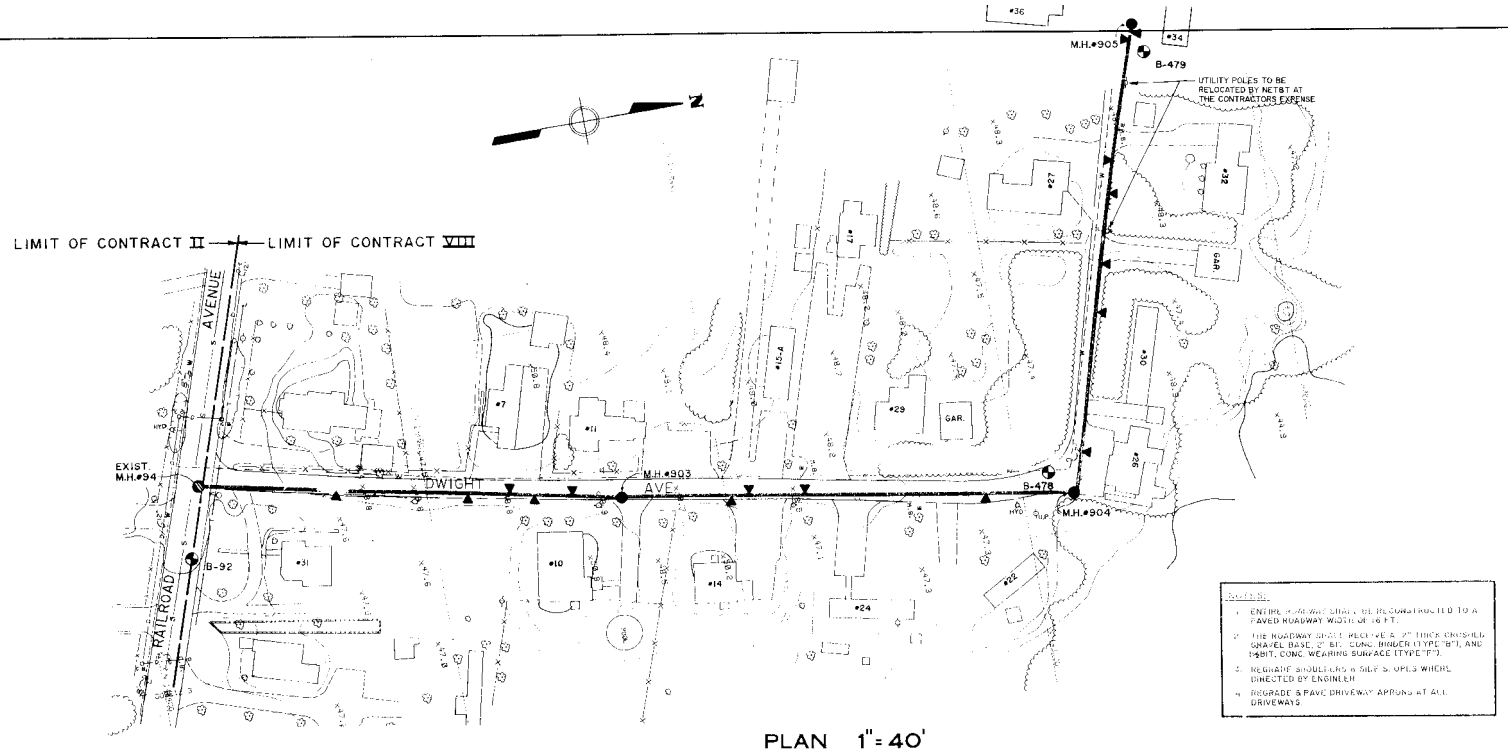

PLAN 1"= 40'

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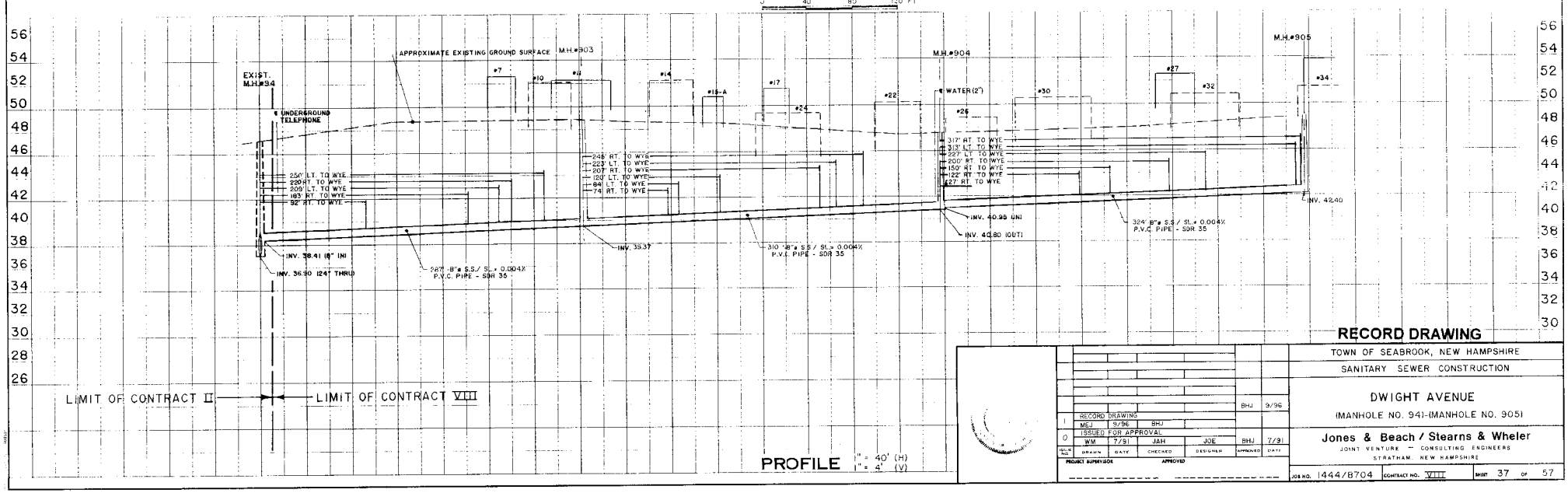
NOTES:
1. ENTIRE ROADWAY WIDTH SHALL BE RECONSTRUCTED TO A PAVED ROADWAY WIDTH OF 16 FT.
2. THE ROADWAY SHALL RECEIVE A 2" THICK CRUSHED GRAVEL (BASE, 2" BIT. CONC. BINDER (TYPE "B"), AND HABIT, CONC. WEARING SURFACE (TYPE "F").
3. REGRADE SHOULDERS & SIDE SLOPES WHERE DIRECTED BY ENGINEER.
4. REGRADE & PAVE DRIVEWAY APRONS AT ALL DRIVEWAYS.



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.						
					BHJ	9/96
1	RECORD DRAWING					
	MEJ	9/96	BHJ			
0	ISSUED FOR APPROVAL					
	WM	7/91	JAH	JOE	BHJ	7/91
	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

DWIGHT AVENUE

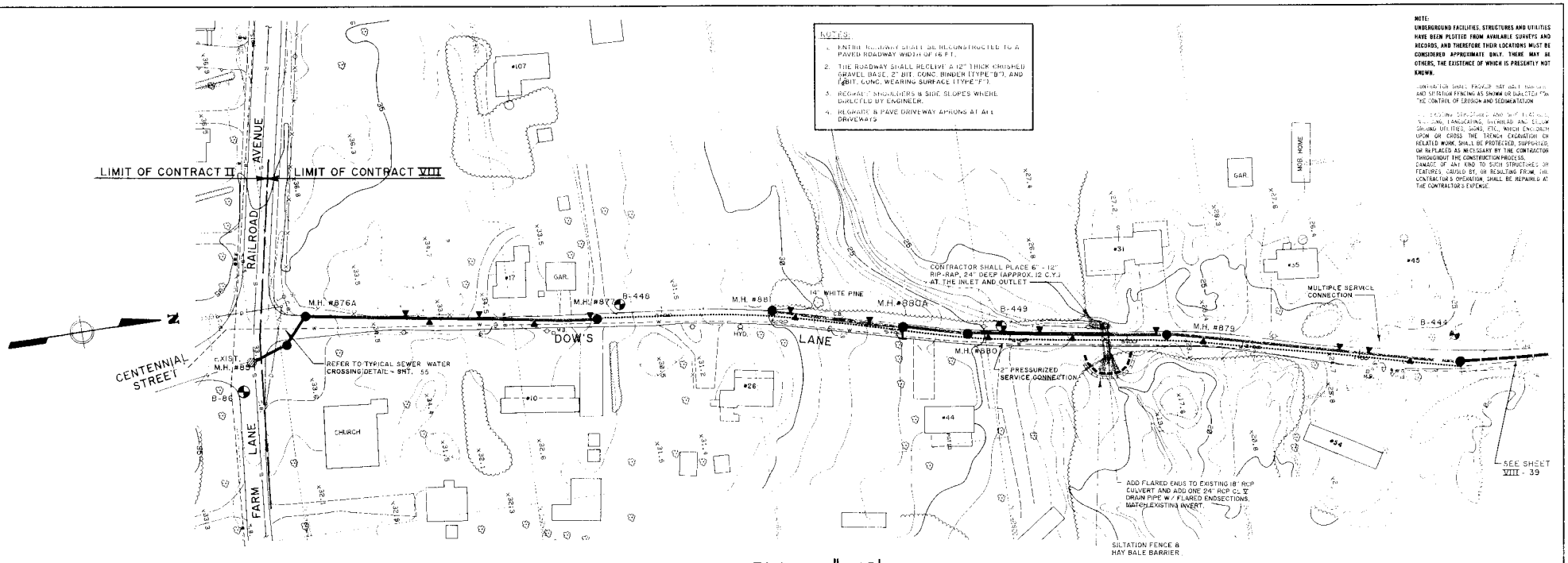
(MANHOLE NO. 94)-(MANHOLE NO. 905)

Jones & Beach / Stearns & Wheler

JOINT VENTURE – CONSULTING ENGINEERS

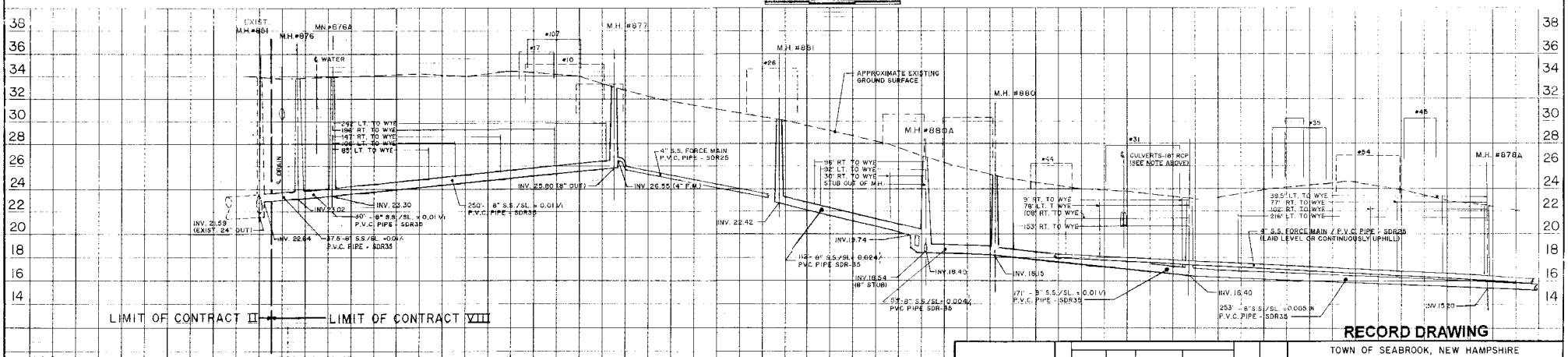
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 37 OF 57


NOTES:
1. ENTIRE ROADWAY SHALL BE RECONSTRUCTED TO A PAVED ROADWAY WIDTH OF 16 FT.
2. THE ROADWAY SHALL RECEIVE A 12" THICK CRUSHED GRAVEL BASE, 2" BIT. CONC. BINDER (TYPE "B"), AND 1" BIT. CONC. WEARING SURFACE (TYPE "F").
3. REGRADE SHOULDERS & SIDE SLOPES WHERE DIRECTED BY ENGINEER.
4. REGRADE & PAVE DRIVEWAY APRONS AT ALL DRIVEWAYS
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION
EXISTING DRIVEWAYS AND SIDEWALKS, CURBING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
LIMIT OF CONTRACT II
LIMIT OF CONTRACT VIII
RAILROAD AVENUE
CENTENNIAL STREET
EXIST. M.H. #881
M.H. #876A
M.H. #876
M.H. #877
M.H. #881
M.H. #880A
M.H. #880
M.H. #879
B-86
B-446
B-448
B-449
B-444
DOW'S LANE
FARM LANE
HYD.
14" WHITE PINE
CHURCH
GAR.
MOB HOME
#107
#17
#10
#26
#31
#35
#44
#45
#54
REFER TO TYPICAL SEWER WATER CROSSING DETAIL - SHT. 55
CONTRACTOR SHALL PLACE 6' - 12" RIP-RAP, 24" DEEP (APPROX. 12 C.Y.) AT THE INLET AND OUTLET
2" PRESSURIZED SERVICE CONNECTION
MULTIPLE SERVICE CONNECTION
ADD FLARED ENDS TO EXISTING 18" RCP CULVERT AND ADD ONE 24" RCP C.I.P. DRAIN PIPE W/ FLARED ENDSECTIONS, MATCH EXISTING INVERT.
SILTATION FENCE & HAY BALE BARRIER
SEE SHEET VIII - 39

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
4	RECORD DRAWING				BHJ	2/97
	MEJ	2/97	BHJ			
3	REMOVE PUMP STATION					5/95
	WK	5/95	BHJ	BHJ		
2	ADDED MH.#880A				BHJ	8/94
	EM	8/94	BHJ	BHJ		
1	RELOCATE PUMP STATION				BHJ	5/94
	JAF	1/94		WM		
0	ISSUED FOR APPROVAL				BHJ	7/91
	JOE	7/91	JAH	JAH/JOE		

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

DOW'S LANE

(MANHOLE No. 85)-(MANHOLE No. 878)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 38 OF 57

NOTES:

1. ENTIRE ROADWAY SHALL BE RECONSTRUCTED TO A PAVED ROADWAY WIDTH OF 16 FT.
2. THE ROADWAY SHALL RECEIVE A 12" THICK CRUSHED GRAVEL BASE, 2" BIT. CONC. BINDER (TYPE "B"), AND 1" BIT. CONC. WEARING SURFACE (TYPE "F").
3. REGRADE SHOULDERS & SIDE SLOPES WHERE DIRECTED BY ENGINEER.
4. REGRADE & PAVE DRIVEWAY APRONS AT ALL DRIVEWAYS.

T.B.M. 139

164 NAIL IN EASTERLY FACE OF LIGHT POLE (#1032) ON WEST SIDE OF DOW'S LANE, AND 1060'± FROM INTERSECTION OF RAILROAD AVE. AND DOW'S LANE.

ELEV. 22.49

NOTE:
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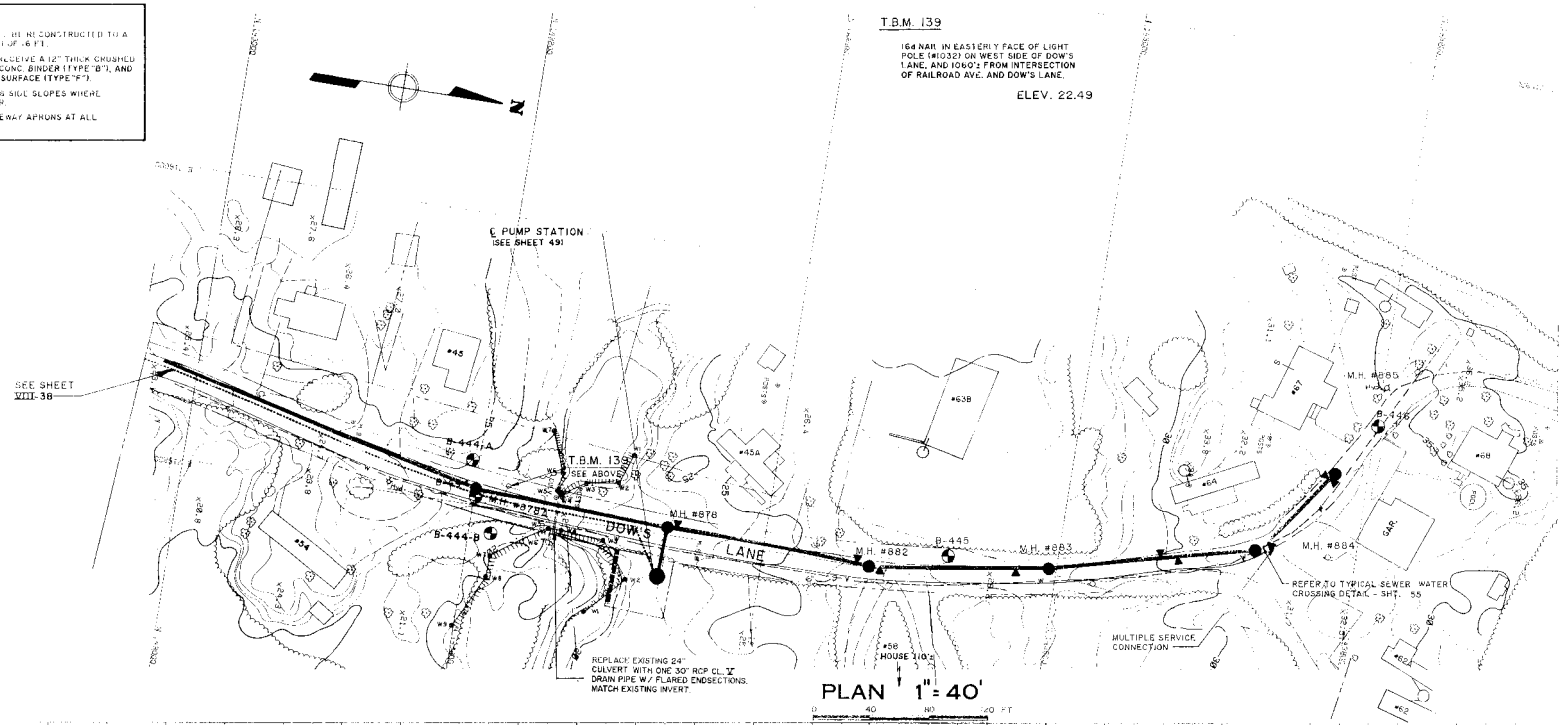
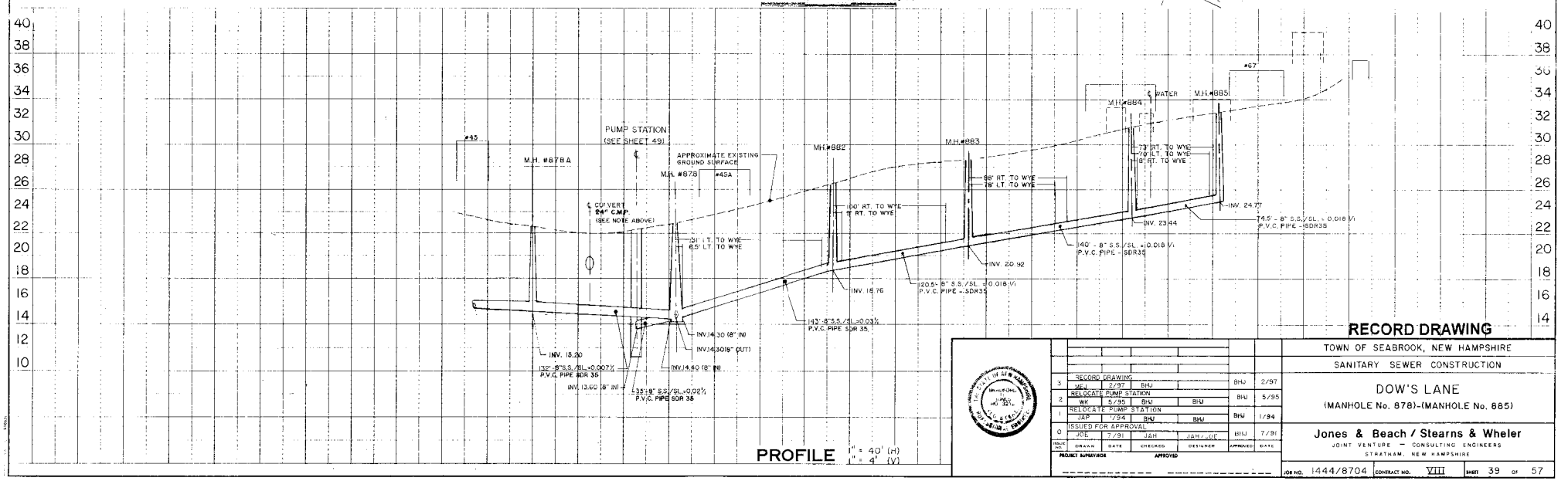
EXISTING STRUCTURES AND SITE FEATURES INCLUDING FENCING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS.

ANY DAMAGE TO THE SITE OR STRUCTURES, CAUSED BY, OR RESULTING FROM, CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING				BHJ	2/97
2	WEJ	2/97	BHJ		BHJ	5/95
	RELOCATE PUMP STATION					
1	WK	5/95	BHJ	BHJ	BHJ	1/94
	RELOCATE PUMP STATION					
0	JAP	1/94	BHJ	BHJ	BHJ	7/91
	ISSUED FOR APPROVAL					
	JOE	7/91	JAH	JAM/JOE		

PROJECT SURVEYOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

DOW'S LANE

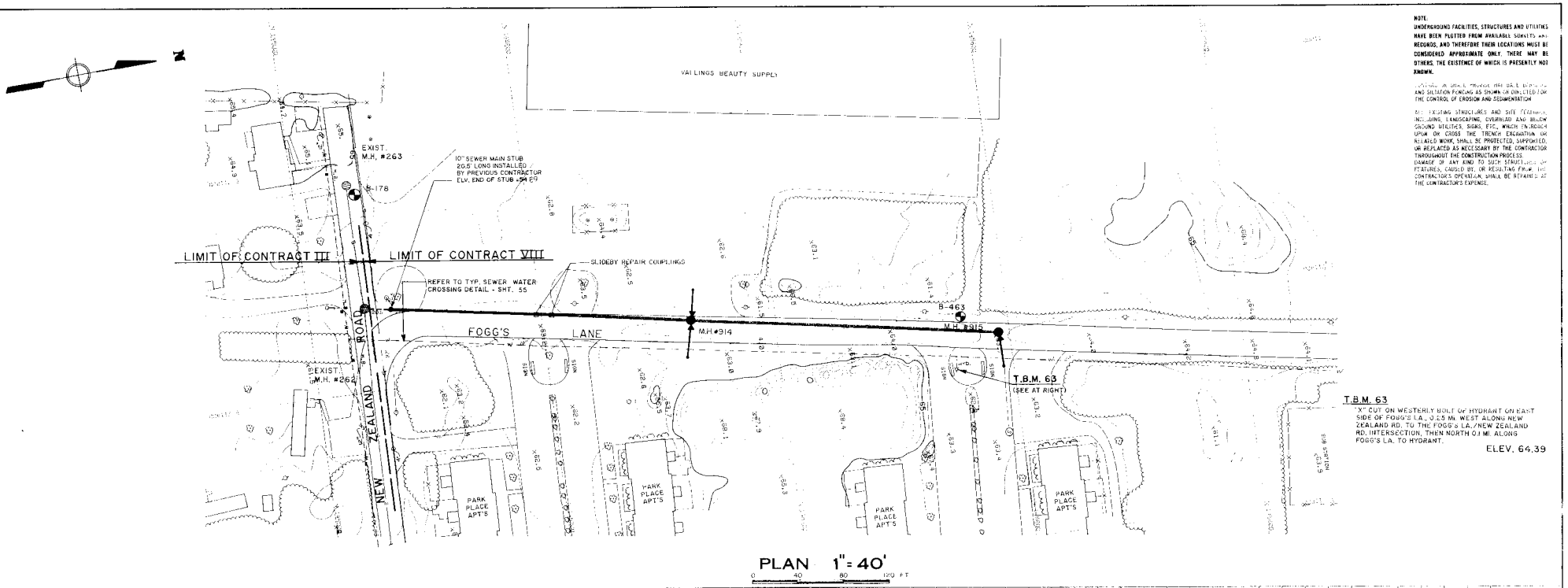
(MANHOLE No. 878)-(MANHOLE No. 885)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 39 OF 57



PLAN 1" = 40'

0 40 80 120 FT

NOTE:
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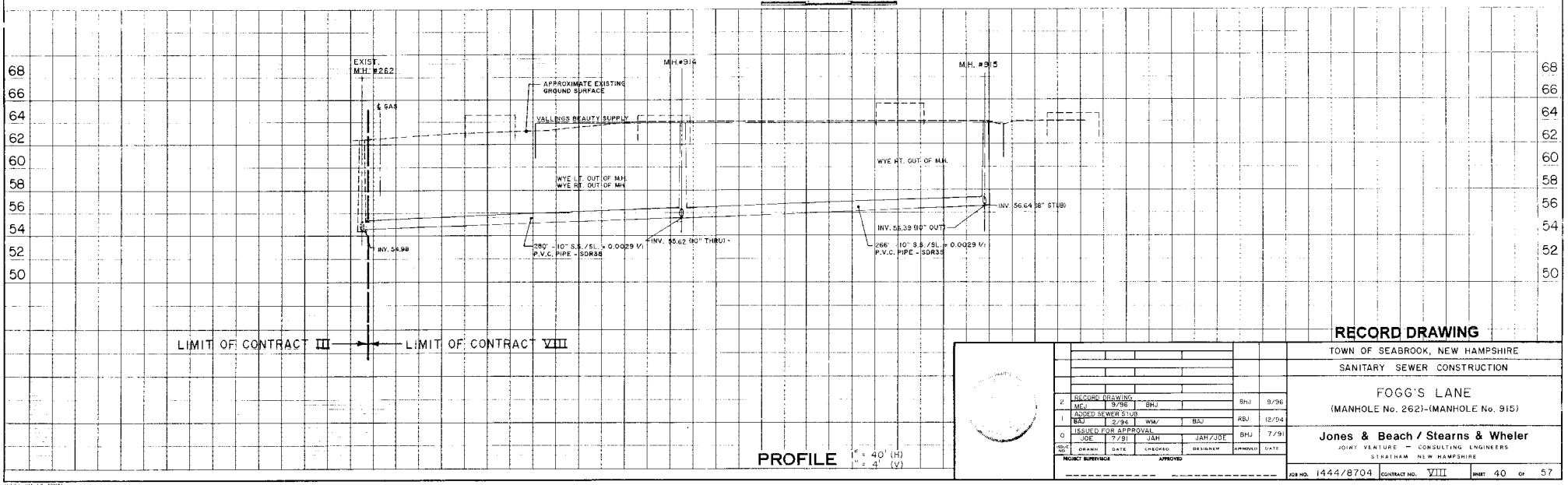
T.B.M. 63

"X" CUT ON WESTERLY BOLT OF HYDRANT ON EAST SIDE OF FOGG'S LA., 0.25 Mi. WEST ALONG NEW ZEALAND RD. TO THE FOGG'S LA./NEW ZEALAND RD. INTERSECTION, THEN NORTH 0.1 MI. ALONG FOGG'S LA. TO HYDRANT.

ELEV. 64.39



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOGG'S LANE

(MANHOLE No. 262)-(MANHOLE No. 915)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING	MEJ	9/96	BHJ		BHJ	9/96
1	ADDED SEWER STUB	BAJ	2/94	WMA	BAJ	RBJ	12/94
0	ISSUED FOR APPROVAL	JOE	7/91	JAH	JAH/JOE	BHJ	7/91

PROJECT SUPERVISOR _____ APPROVED _____

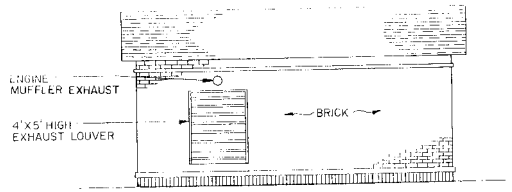
Jones & Beach / Stearns & Wheler

JOINT VENTURE – CONSULTING ENGINEERS

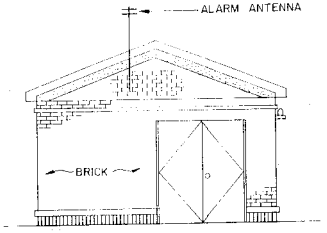
STRATHAM NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 40 OF 57

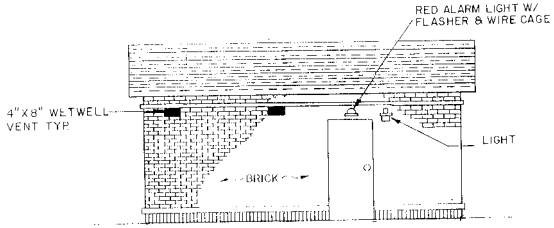
NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records. And therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.



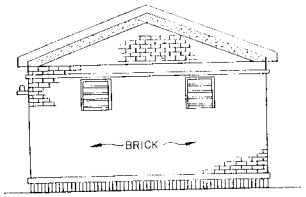
EAST ELEVATION



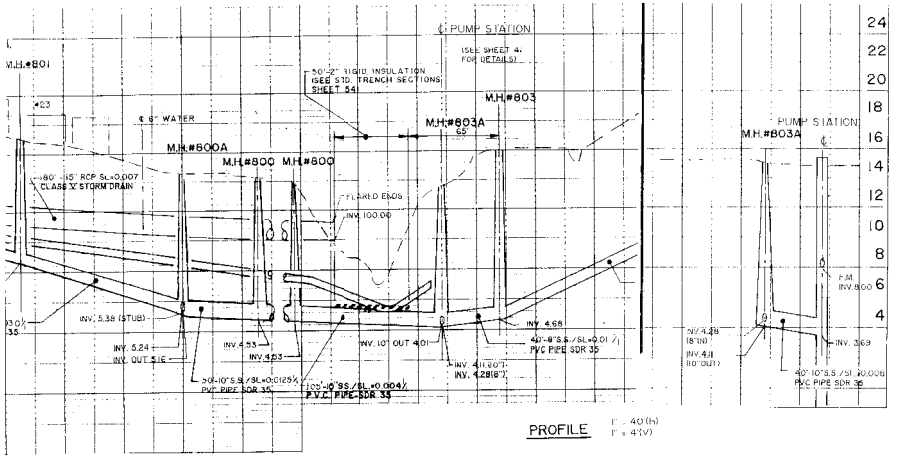
NORTH ELEVATION



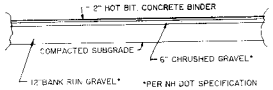
WEST ELEVATION



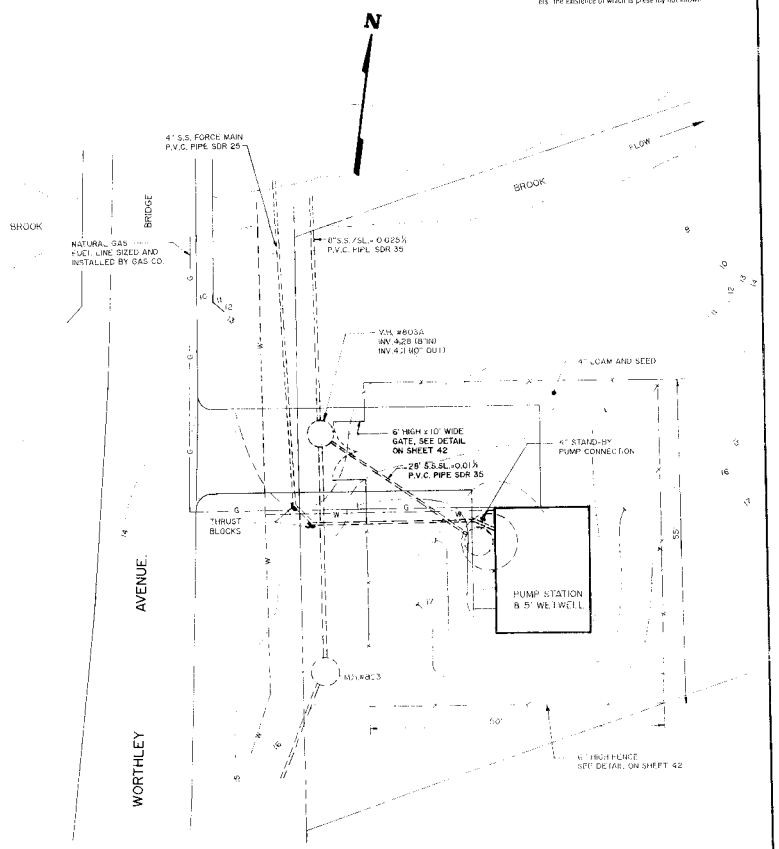
SOUTH ELEVATION



PROFILE 1" = 40'(H) 1" = 4'(V)



TYPICAL DRIVEWAY CROSS SECTION
N.T.S.


N
4" S.S. FORCE MAIN P.V.C. PIPE SDR 25
BROOK
BRIDGE
FLOW
NATURAL GAS 4"DCI LINE SIZED AND INSTALLED BY GAS CO.
8"S.S./SL=0.025% P.V.C. PIPE SDR 35
M.H.#803A INV. 4.28 (8"IN) INV. 4.11 (10" OUT)
4" LOAM AND SEED
6' HIGH x 10' WIDE GATE, SEE DETAIL ON SHEET 42
4" STAND-BY PUMP CONNECTION
28' S.S./SL=0.01% P.V.C. PIPE SDR 35
THRUST BLOCKS
PUMP STATION & 5' WETWELL
M.H.#803
WORTHLEY AVENUE
6' HIGH FENCE SEE DETAIL ON SHEET 42

WORTHLEY AVENUE PUMP STATION
SITE PLAN
SITE: 1" = 10'

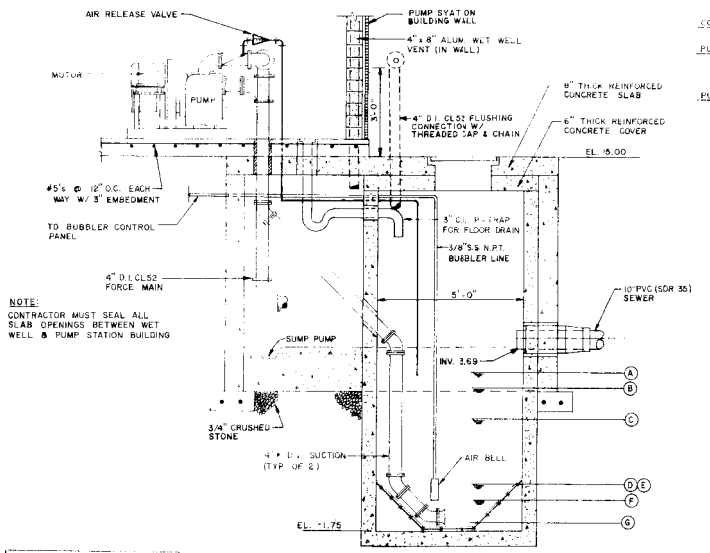
TOWN OF SEABROOK, NEW HAMPSHIRE
WORTHLEY AVENUE PUMP STATION

SITE PLAN & DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
PROJECT SUPERVISOR		APPROVED			

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 41 OF 57



NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	3.69
B	LAG PUMP ON	3.00
C	LEAD PUMP ON	2.50
D	LAG PUMP OFF	.75
E	LEAD PUMP OFF	.75
F	L.W.L. ALARM	.25
G	INVERT OF SUCTION	-1.25

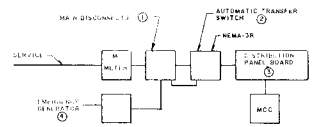
SECTION A-A
NO SCALE

PUMP STATION DESIGN

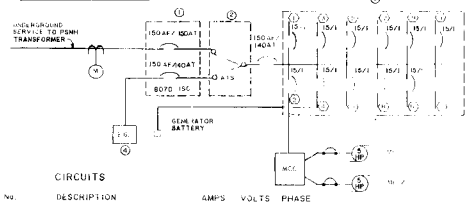
CONDITIONS OF SERVICE
125 G.P.M. AT 29.17 ft. TDH

PUMPING EQUIPMENT
(2) - GORMAN RUPP, 5 H.P. PUMPS, MOD. # T4A-B
4" x 4" SELF-PRIMING, SUCTION LIFT PUMPS, w/ 9 3/4" IMPELLER, 850 R.P.M.
POWER- 240 VOLT/1 PHASE/60 Hz/3 WIRE

PUMP STATION CONTROL EQUIPMENT
A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotometer
E) Alarm Horn & Silencer
F) Pump Volute Heaters
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) 30,000 BTU Gas Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) Spare Parts Normally Required Within First Year Of Operation
M) 115V, 1Ø, 60Hz, Grounded Duplex Receptacle
N) 115V Alarm Light in Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
O) Radio Telemetry System with uninterruptible power supply
P) 3kVA Stepdown Transformer



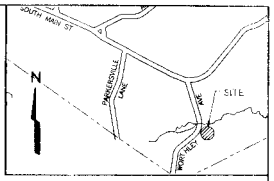
BLOCK DIAGRAM



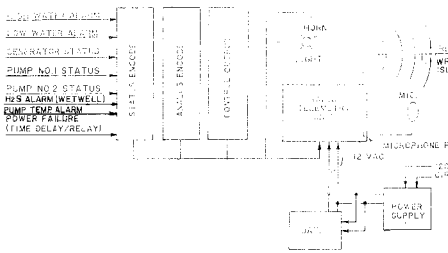
CIRCUITS

No.	DESCRIPTION	AMPS	VOLTS	PHASE
(1)	STATION HEATER	15	120	1
(2)	H_2S MONITOR	15	120	1
(3)	RECEPTACLE w/GROUND FAULT	15	120	1
(4)	GEN. SET BATTERY CHARGER	15	120	1
(5)	ALARM LIGHTS	15	120	1
(6)	SPARE			
(7)	RADIO TELEMETRY & LAPSE TIME METER	15	120	1
(8)	STATION VENTILATION BLOWER	15	120	1
(9)	HAND HELD LIGHT	15	120	1
(10)	STATION LIGHTS	15	120	1
(11)	STATION LIGHTS	15	120	1
12	SPARE			

GENERAL NOTES:
1) DISCONNECTS (CIRCUIT BREAKER), AUTOMATIC TRANSFER SW. TCHES, METER CUBICLE & DISTRIBUTION PANEL SHALL BE WALL MOUNTED TYPE.
2) ALL RACEWAYS TO BUILDING UNDERGROUND
3) ALL EQUIPMENT TO BE NEMA-3R.
4) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL).

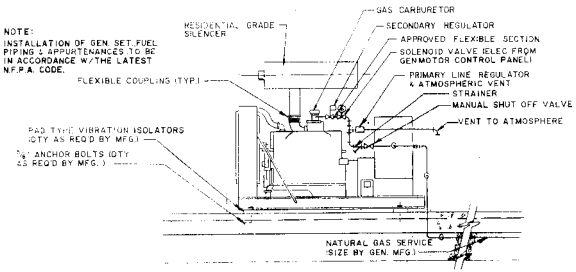


LOCUS PLAN
SCALE: 1" = 1000'



REMOTE TRANSMITTER RECEIVER

NOTE:
INSTALLATION OF GEN. SET FUEL PIPING & APPURTENANCES TO BE IN ACCORDANCE W/THE LATEST N.F.P.A. CODE.

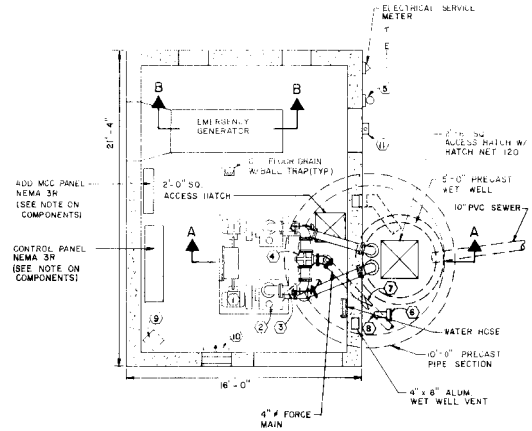

RESIDENTIAL GRADE SILENCER
GAS CARBURETOR
SECONDARY REGULATOR
APPROVED FLEXIBLE SECTION
SOLENOID VALVE (ELEC. FROM GEN/MOTOR CONTROL PANEL)
PRIMARY LINE REGULATOR & ATMOSPHERIC VENT
STRAINER
MANUAL SHUT OFF VALVE
VENT TO ATMOSPHERE
FLEXIBLE COUPLING (TYP.)
PAD TYPE VIBRATION ISOLATORS (QTY AS REQ'D BY MFG.)
3/4" ANCHOR BOLTS (QTY AS REQ'D BY MFG.)
NATURAL GAS SERVICE (SIZE BY GEN. MFG.)

SECTION B-B
NO SCALE

CONDITIONS OF SERVICE

GENERATOR:
30 KILOWATTS AT 120/240 VOLTS, 1Ø, 60 Hz 138 AMP

ENGINE:
62 MAX. H.P. AT 1800 R.P.M., 4 CYCLE, 6 CYL. NAT. GAS FUELED, LIQUID COOLED, W/ (UNIFIED W/RESIDENTIAL SERVICE SILENCER, 12 V. D.C. ELECTRIC START., BATT. CHARGER & BLOCK HEATER


ELECTRICAL SERVICE METER
EMERGENCY GENERATOR
21'-4"
16'-0"
ACCESS HATCH W/ HATCH NET 120
5'-0" PRECAST WET WELL
2'-0" SQ. ACCESS HATCH
ADD MCC PANEL NEMA 3R (SEE NOTE ON COMPONENTS)
CONTROL PANEL NEMA 3R (SEE NOTE ON COMPONENTS)
10" PVC SEWER
WATER HOSE
10'-0" PRECAST PIPE SECTION
4" x 8" ALUM. WET WELL VENT
4" ø FORCE MAIN

PLAN - PUMPING STATION & STANDBY GENERATOR
SCALE: 1/4" = 1'-0"

PLAN VIEW LEGEND

1. PUMP MOTOR (TYP. 2)
2. PUMP (TYP. 2)
3. 4"ø FULL FLOW SWING CHECK VALVE (TYP. 2)
4. 4"ø 3-WAY PLUG VALVE
5. 150 WHPS LIGHT, AUTO ELEC. SWITCH
6. 4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
7. 4"ø D.I. FLG. GATE VALVE (TYP.) (SEE NOTE 1)
8. 4" x 4" x 4"ø D.I. FLG. TEE.
9. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
10. FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER

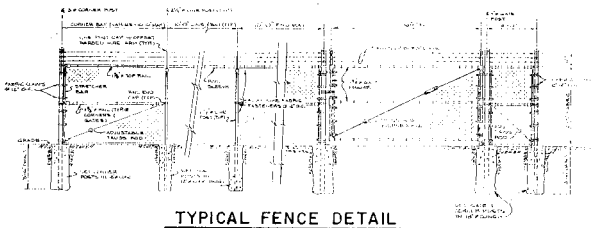
NOTE 1. PLEASE NOTE THERE ARE TWO 4" DIA. D.I. FLG. GATE VALVES, ONE ON THE FLUSHING CONNECTION AND ONE ON THE FORCE MAIN

CONTROL PANEL COMPONENTS BY PUMP MANFACTURER

1. AIR BUBBLER CONTROL SYSTEM
2. MOTOR CONTROL CENTER
3. STEPDOWN TRANSFORMER
4. 110V ELECTRICAL DUPLEX OUTLET

ADDITIONAL MOTOR CONTROL CENTER COMPONENTS BY CONTRACTOR

1. AUTOMATIC TRANSFER SWITCH
2. DISTRIBUTION PANEL
3. RADIO ALARM SYSTEM (RTU)
4. RADIO TRANSEIVER
5. H_2S GAS MONITOR UNIT
6. 50' WATERPROOF HAND HELD LIGHT
7. MAIN DISCONNECTS



TYPICAL FENCE DETAIL
NO SCALE

NO.	DATE	REVISION
3	12/94	REVISION BY ADDENDA
2	10/94	PUMP STATION REVISIONS
1	7/93	GENERAL REVISIONS
0	7/91	ISSUED FOR APPROVAL

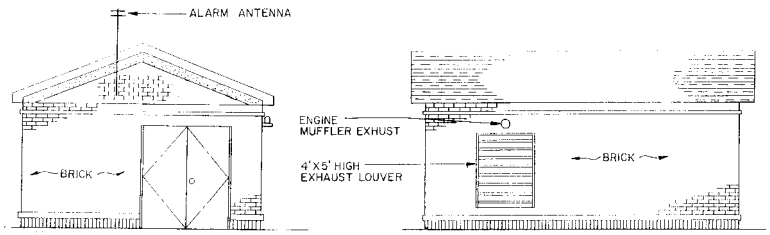
THE STATE OF NEW HAMPSHIRE — BRADFORD H. WARD — 7571 — REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE
WORTHLEY AVENUE PUMP STATION

PUMP STATION DETAILS

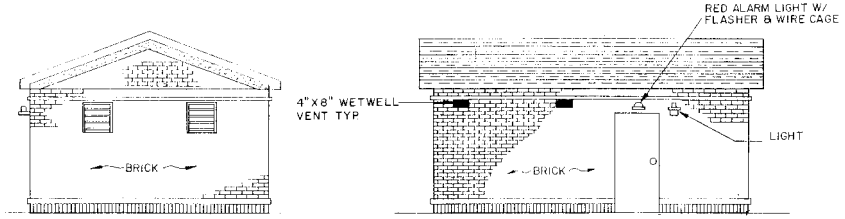
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. VIII | SHEET 42 OF 57



SOUTH ELEVATION

EAST ELEVATION

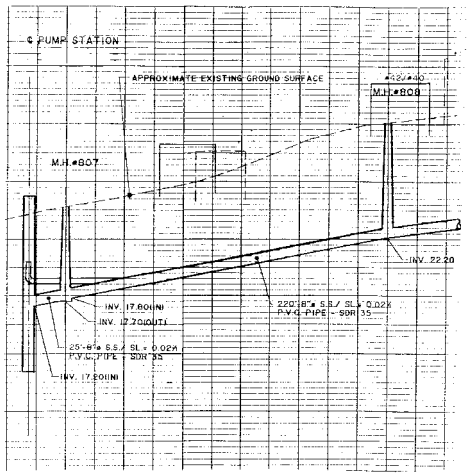


NORTH ELEVATION

WEST ELEVATION

ARCHITECTURAL ELEVATIONS

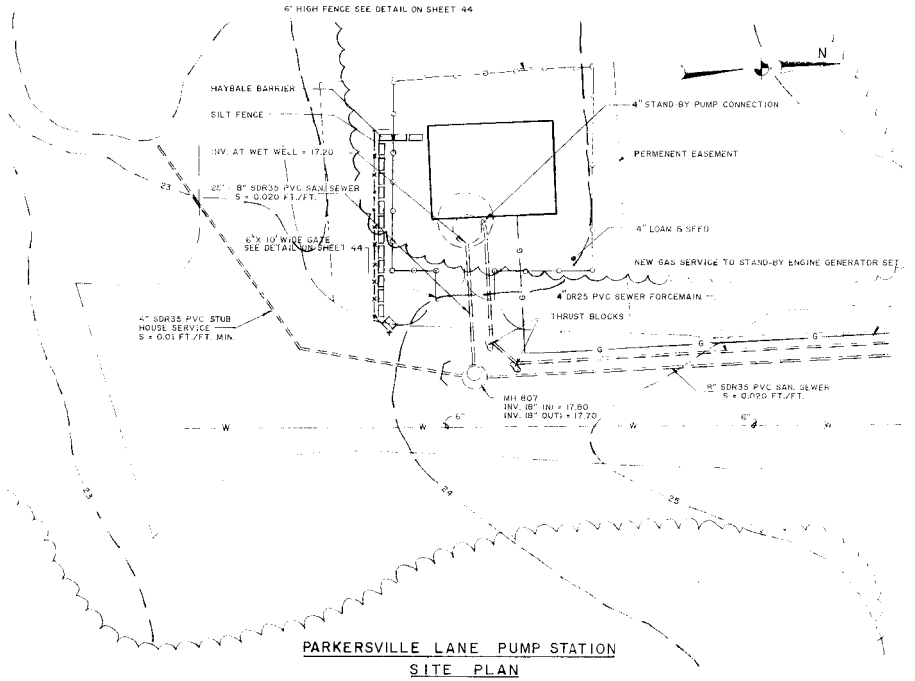
SCALE: 1/4"=1'-0"



PROFILE

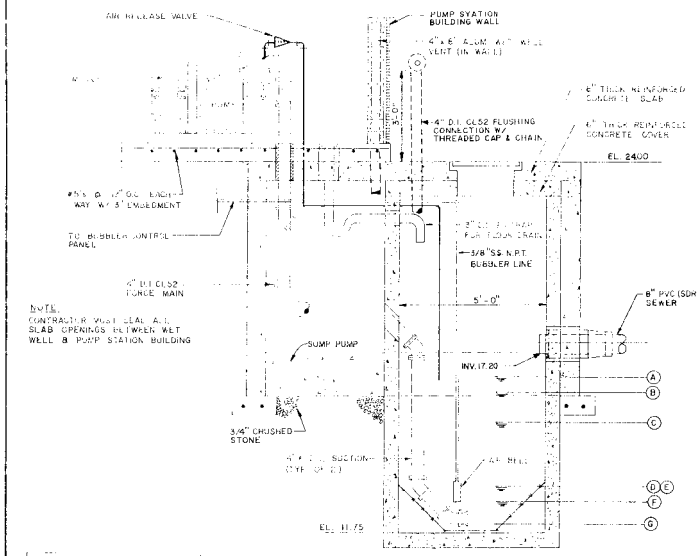
1"= 40' (H)
1"= 4' (V)

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others the existence of which is presently not known.



PARKERSVILLE LANE PUMP STATION
SITE PLAN

SCALE: 1" = 10'


AIR RELEASE VALVE
PUMP STATION BUILDING WALL
4" x 6" ALUM. ACT. WELL VENT (IN WALL)
6" THICK REINFORCED CONCRETE SLAB
4" DI. CL52 FLUSHING CONNECTION W/ THREADED CAP & CHAIN
6" THICK REINFORCED CONCRETE COVER
EL. 24.00
#N.S. @ 12" O.C. EACH WAY W/ 3" EMBEDMENT
TO BUBBLER CONTROL PANEL
4" DI. CL52 FORCE MAIN
3/8" SS N.P.T. BUBBLER LINE
5'-0"
8" PVC (SDR 35) SEWER
SUMP PUMP
INV. 17.20
3/4" CRUSHED STONE
4" DI. CL52 SUCTION (TYP. OF 2)
EL. 11.75
NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

PUMP STATION DESIGN

CONDITIONS OF SERVICE

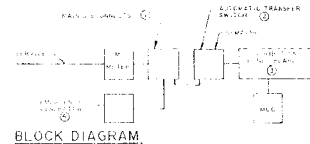
125 G.P.M. AT 32.50 ft TDH

EQUIPMENT

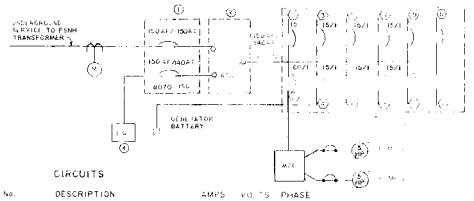
(2) - GORMAN RUPP - 5 H.P. MOD. S MOD. # T4A B 4" x 4" SELF-PRIMING SUCTION UNIT PUMPS W/ 9 3/4" IMPELLER, 1050 R.P.M.
POWER- 240 VOLT/1 PHASE/60 Hz/3 WIRE

PUMP STATION CONTROL EQUIPMENT

A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotometer
E) Alarm Horn & Silencer
F) Pump Volute Heaters
G) Pump High Temperature Protectors
H) Hand Running Lights & Elapsed Time Meters
I) Overload Resets
J) 50,000 BTU Gas Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) Automatic Transfer Switch For Switching Power Source From Power Company To Emergency Generator.
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 12, 60Hz, Grounded Duplex Receptacle
O) 115V Alarm Light In Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply
Q) 3KVA Stepdown Transformer



BLOCK DIAGRAM

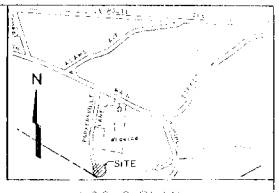


CIRCUITS

No.	DESCRIPTION	AMPS	VOLTS	PHASE
(1)	STATION HEATER	15	20	1
(2)	MOTOR CONTROL CENTER (MCC)	60	230	1
(3)	RECEPTACLE w/GROUND FAULT	15	120	1
(4)	GEN. SET BATTERY CHARGER	15	120	1
(5)	ALARM LIGHTS & H2S MONITOR	15	120	1
(6)	BUBBLER LEVEL CONTROL	15	120	1
(7)	RADIO TELEMETRY & LAPSE TIME METER	15	120	1
(8)	STATION VENTILATOR BLOWER	15	120	1
(9)	HAND HELD LIGHT	15	120	1
(10)	STATION LIGHTS	15	120	1
(11)	STATION LIGHTS	15	120	1
(12)	SPARE			

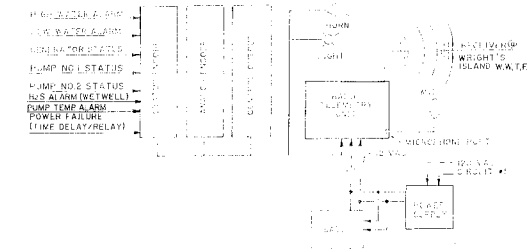
GENERAL NOTES

1) DISCONNECTS (CIRCUIT BREAKER), AUTOMATIC TRANSFER SWITCH, METER SOCKET & DISTRIBUTION PANEL SHALL BE WALL MOUNTED TYPE.
2) ALL RACEWAYS TO RUN INDOOR/ROOF.
3) ALL EQUIPMENT TO BE NEMA-3R.
4) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL).



LOCUS PLAN

SCALE: 1" = 1000'

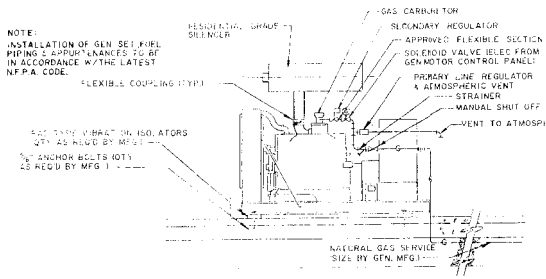


REMOTE TRANSMITTER RECEIVER

PUMPING CONDITIONS		
ITEM	DESCRIPTION	ELEV.
A	HIGH ALARM	17.20
B	LAG PUMP ON	16.50
C	LEAD PUMP ON	16.00
D	LAG PUMP OFF	14.25
E	LEAD PUMP OFF	14.25
F	LOW ALARM	13.75
G	INVERT OF WELL	12.25

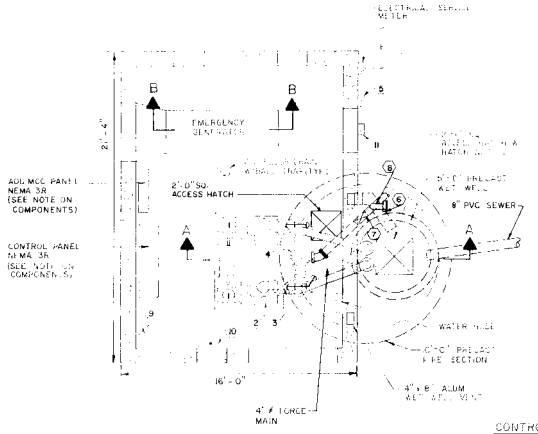
SECTION A-A

NO SCALE


NOTE:
INSTALLATION OF GEN. SET FUEL PIPING & APPURTENANCES TO BE IN ACCORDANCE W/THE LATEST N.F.P.A. CODE.
RESIDENTIAL GRADE SILENCER
GAS CARBURETOR
SECONDARY REGULATOR
APPROVED FLEXIBLE SECTION
SOLENOID VALVE (ELEC. FROM GEN. MOTOR CONTROL PANEL)
PRIMARY LINE REGULATOR & ATMOSPHERIC VENT
STRAINER
MANUAL SHUT OFF VALVE
VENT TO ATMOSPHERE
FLEXIBLE COUPLING (TYP.)
RAT TRAP (TYP.)
VIBRATION ISOLATORS QTY. AS REQ'D BY MFG.
3/8" ANCHOR BOLTS (QTY. AS REQ'D BY MFG.)
NATURAL GAS SERVICE SIZE BY GEN. MFG.

SECTION B-B

NO SCALE


ELECTRICAL SERVICE METER
EMERGENCY DISCONNECTS
ADJ. MCC PANEL NEMA 3R (SEE NOTE ON COMPONENTS)
2'-0" SQ. ACCESS HATCH
CONTROL PANEL NEMA 3R (SEE NOTE ON COMPONENTS)
8" PVC SEWER
WATER HOSE
6'-0" PRECAST PIPE SECTION
16'-0"
4" DI. FORCE MAIN

PLAN - PUMPING STATION & STANDBY GENERATOR

SCALE: 1/4" = 1'-0"

PLAN VIEW LEGEND

1. PUMP MOTOR (TYP. 2)
2. PUMP (TYP. 2)
3. 3/4"ø FULL FLOW SWING CHECK VALVE (TYP. 2)
4. 4"ø 3-WAY PLUG VALVE
5. 4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
6. 4" DI. FLG. GATE VALVE (TYP.)
7. 4"X4"X4"ø DI. FLG. TEE.
8. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
9. FIBERGLASS WALL FRONT LOUVER
10. EXHAUST FAN W/ MOTOR OPERATED DAMPER
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER

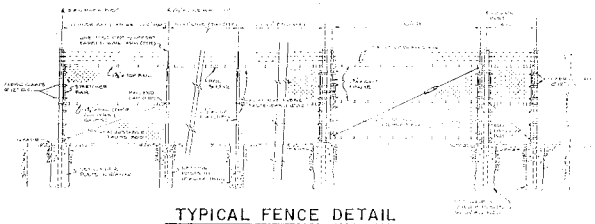
CONDITIONS OF SERVICE

GENERATOR:
30 KILOWATTS AT 120/240 VOLTS, 1Ø, 60 Hz, 150 AMP

ENGINE:
60 MAX. H.P. AT 1800 R.P.M., 4 CYCLE, 6 CYL. NAT. GAS FUELED, LIQUID COOLED, & EQUIPPED W/RESIDENTIAL SERVICE SILENCER, 12 V. D.C. ELECTRIC START, BATT. CHARGER & BLOCK HEATER

ADDITIONAL MOTOR CONTROL CENTER COMPONENTS BY CONTRACTOR

1. AUTOMATIC TRANSFER SWITCH
2. DISTRIBUTION PANEL
3. RADIO ALARM SYSTEM (RTU)
4. RADIO TRANSCEIVER
5. H2S GAS MONITOR UNIT
6. 50' WATERPROOF HAND HELD LIGHT



TYPICAL FENCE DETAIL

NO SCALE

CONTROL PANEL COMPONENTS BY PUMP MANFACTURER

1. MAIN DISCONNECTS
2. AIR BUBBLER CONTROL SYSTEM
3. MOTOR CONTROL CENTER
4. STEPDOWN TRANSFORMER
5. 110V ELECTRICAL DUPLEX OUTLET

NO.	DATE	REVISION
2	10/94	PUMP STATION REVISIONS
1	7/93	GENERAL REVISIONS
0	7/91	ISSUED FOR APPROVAL

TOWN OF SEABROOK, NEW HAMPSHIRE

PARKERSVILLE LANE PUMP STATION

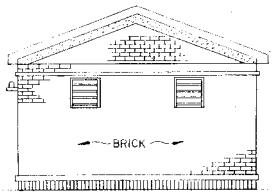
PUMP STATION DETAILS

Jones & Beach / Stearns & Wheler

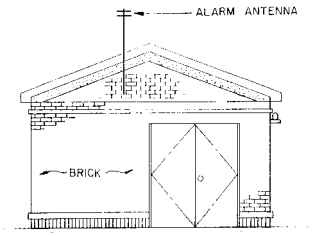
CIVIL CONSULTANT — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

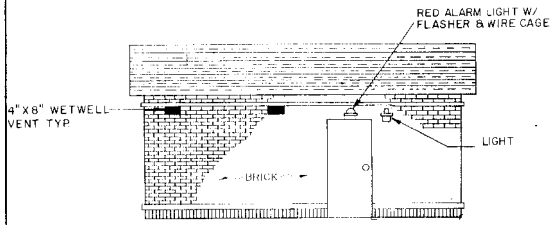
JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 44 OF 57



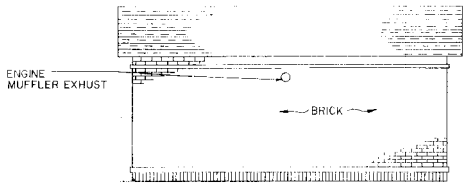
SOUTH ELEVATION



NORTH ELEVATION



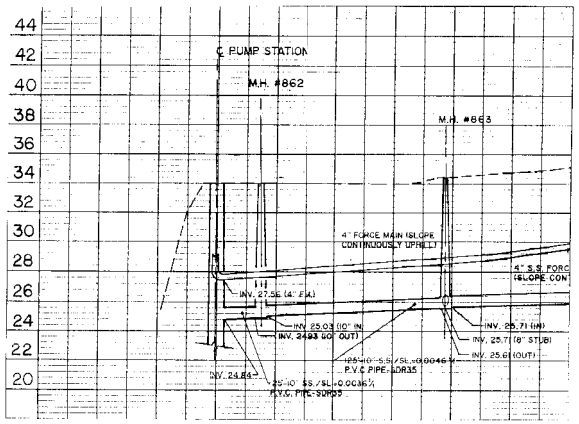
WEST ELEVATION



EAST ELEVATION

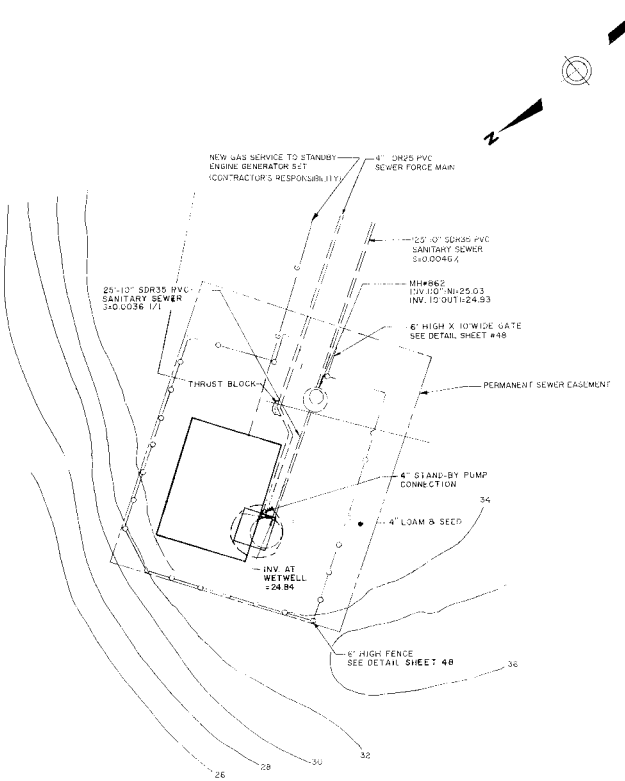
ARCHITECTURAL ELEVATIONS

SCALE: 1/4" = 1'-0"



PROFILE

1" = 40' (H)
1" = 4' (V)



PINECREST SHORES PUMP STATION

SITE PLAN

SCALE: 1" = 10'

NO.	REVISION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	REVISED PUMP STATION LOCATION	RDK	5/93	BHJ	WM	BHJ	7/93
1	GENERAL REVISIONS	SC	7/93	BHJ	JEC	BHJ	7/93
0	ISSUED FOR APPROVAL	WM	3/93	JAH	JAH	JAH	3/93

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

PINECREST SHORES PUMP STATION

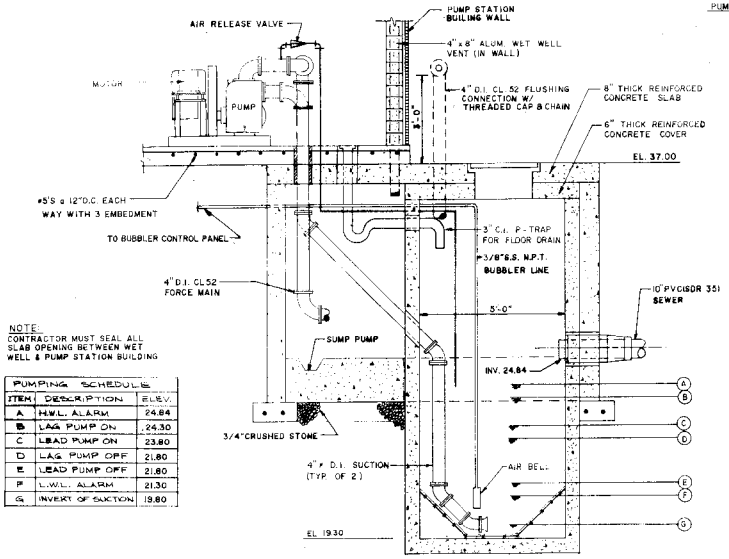
SITE PLAN AND DETAILS

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 47 OF 57



NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENING BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	EL.ev.
A	H.W.L. ALARM	24.84
B	LAG PUMP ON	24.30
C	LEAD PUMP ON	23.80
D	LAG PUMP OFF	21.80
E	LEAD PUMP OFF	21.80
F	L.W.L. ALARM	21.30
G	INVERT OF SUCTION	19.80

SECTION A-A

NO SCALE

PUMP STATION DESIGN

CONDITIONS OF SERVICE

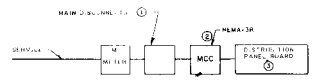
140 G.P.M. AT 26.13 ft. TDH

PUMPING EQUIPMENT

(2) - GORMAN RUPP 5 H.P. PUMPS, MOD. # T4A-B
4" x 4", SELF-PRIMING, SUCTION LIFT PUMPS, w/ 9 3/4" IMPELLER, 950 R.P.M.
POWER: 480 VOLT/3 PHASE/60 Hz/4 WIRE

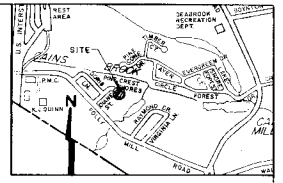
PUMP STATION CONTROL EQUIPMENT

A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotometer
E) Alarm Horn & Silencer
F) Pump Volute Heaters
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) 30,000 BTU Gas Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) Standby Level Control For Switching Power Source From Power Company to Emergency Standby Engine
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 1Ø, 60Hz, Grounded Duplex Receptacle
O) 115V Alarm Light in Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply
Q) 3KVA Stepdown Transformer



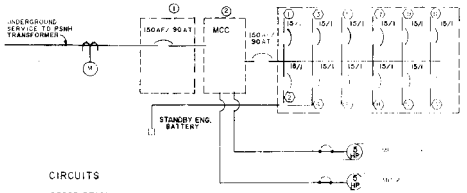
GENERAL NOTES:

1. DISCONNECTS (CIRCUIT BREAKER), AUTOMATIC TRANSFER SWITCHES(ATS), METER CUBICLE & DISTRIBUTION PANEL SHALL BE PEDESTAL TYPE.
2. ALL RACEWAYS TO BE RUN UNDERGROUND.
3. ALL EQUIPMENT TO BE NEMA-3R.
4. SHORT CIRCUIT CURRENT AVAILIABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL)



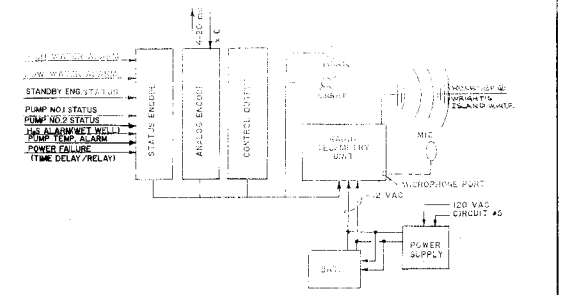
LOCUS PLAN

BLOCK DIAGRAM

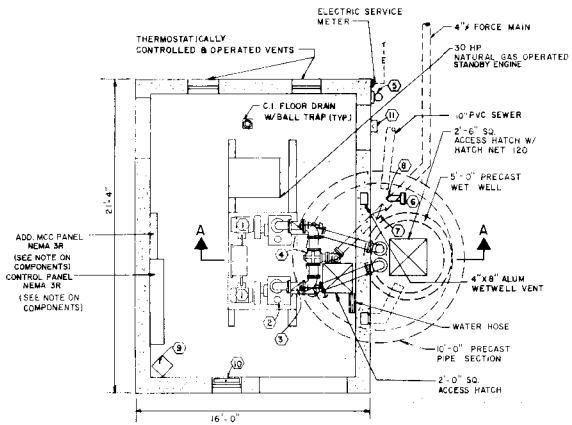


CIRCUITS

No.	DESCRIPTION	AMPS	VOLTS	PHASE
(1)	STATION HEATER	15	120	1
(2)	H_2S MONITOR	15	120	1
(3)	RECEPTACLE w/GROUND FAULT	15	120	1
(4)	STBY.ENG. BATTERY CHARGER	15	120	1
(5)	ALARM LIGHTS	15	120	1
(6)	SPARE	15	120	1
(7)	RADIO TELEMETRY & LAPSE TIME METER	15	120	1
(8)	STATION VENTILATOR BLOWER	15	120	1
(9)	HAND HELD LIGHT	15	120	1
(10)	STATION LIGHTS	15	120	1
(11)	STATION LIGHTS	15	120	1
(12)	SPARE	15	120	1



REMOTE TRANSMITTER RECEIVER


ELECTRIC SERVICE METER
THERMOSTATICALLY CONTROLLED & OPERATED VENTS
4" FORCE MAIN
30 HP NATURAL GAS OPERATED STANDBY ENGINE
C.I. FLOOR DRAIN W/BALL TRAP (TYP.)
10" PVC SEWER
2'-6" SQ. ACCESS HATCH W/ HATCH NET 120
5'-0" PRECAST WET WELL
ADD. MCC PANEL NEMA 3R (SEE NOTE ON COMPONENTS)
CONTROL PANEL NEMA 3R (SEE NOTE ON COMPONENTS)
4"x8" ALUM WETWELL VENT
WATER HOSE
10'-0" PRECAST PIPE SECTION
2'-0" SQ. ACCESS HATCH
16'-0"

PLAN - PUMPING STATION & AUTOSTART

SCALE: 1/4" = 1'-0"

PLAN VIEW LEGEND

1. PUMP MOTOR (TYP.2)
2. PUMP (TYP.2)
3. 4"ø FULL FLOW SWING CHECK VALVE (TYP.2)
4. 4"ø 3-WAY PLUG VALVE
5. 150 WHPS LIGHT, AUTO ELEC SWITCH
6. 4"ø FLUSHING CONNECTION W/ THREADED CAP & CHAIN
7. 4"ø D.I. FLG. GATE VALVE (TYP.) (SEE NOTE 1)
8. 4"x4"x4"x4" DI FLG TEE.
9. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
10. FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER

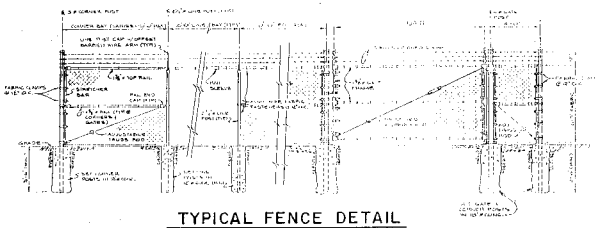
NOTE 1. PLEASE NOTE THERE ARE TWO 4" DIA. D.I. FLG. GATE VALVES, ONE ON THE FLUSHING CONNECTION AND ONE ON THE FORCEMAIN.

CONTROL PANEL COMPONENTS BY PUMP MFGR.

1. AC LEVEL CONTROL SYSTEM
2. DC LEVEL CONTROL SYSTEM
3. MOTOR CONTROL-CENTER
4. STEPDOWN TRANSFORMER
5. 110V ELECTRICAL DUPLEX OUTLET

ADDITIONAL MOTOR CONTROL CENTER COMPONENTS BY CONTRACTOR

1. DISTRIBUTION PANEL
2. RADIO ALARM SYSTEM (RTU)
3. RADIO TRANSCEIVER
4. H_2S GAS MONITOR UNIT
5. 50' WATERPROOF HAND HELD LIGHT
6. MAIN DISCONNECTS



TYPICAL FENCE DETAIL

NO SCALE

NO.	DATE	REVISION
3	12/94	REVISION BY ADDENDA
2	10/94	GENERAL REVISIONS
1	7/93	GENERAL REVISIONS
0	7/91	ISSUED FOR APPROVAL

TOWN OF SEABROOK, NEW HAMPSHIRE

PINE CREST SHORES PUMP STATION

PUMP STATION DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. VIII SHEET 48 OF 57

SANITARY SEWER CONSTRUCTION

SEABROOK, NEW HAMPSHIRE

CONTRACT NO. 9

1994

JONES & BEACH/STEARNS & WHEELER

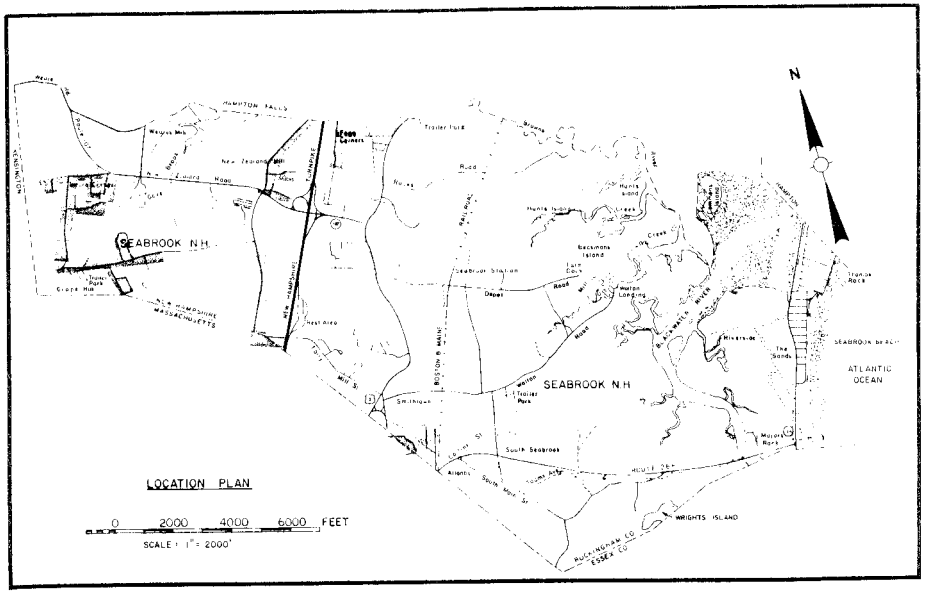
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

ABBREVIATIONS

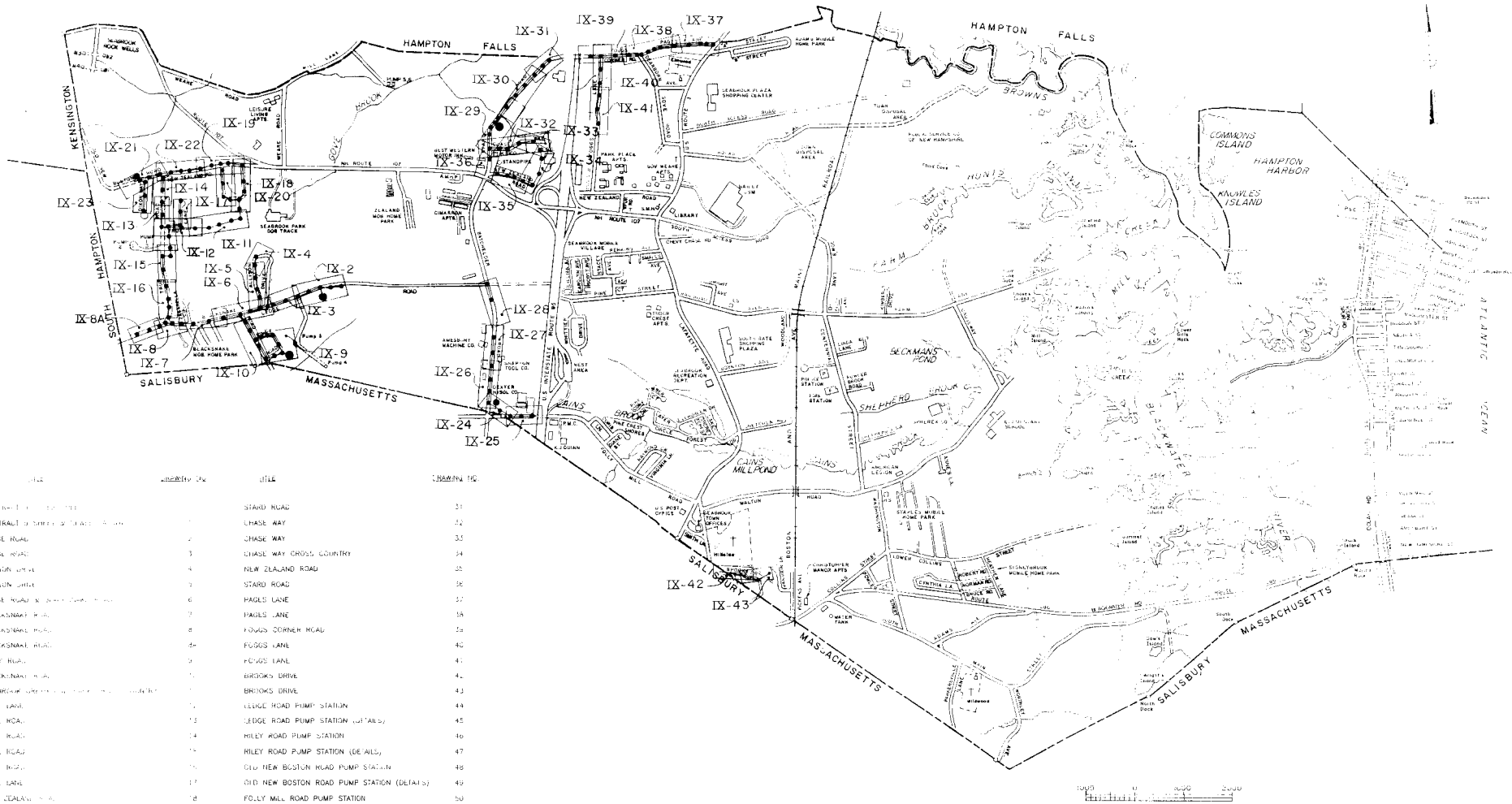
BENCHMARK	BM
BITUMINOUS	BIT
CAST IRON PIPE	CIP
CATCH BASIN	CB
CONCRETE	CONC
CORR. METAL PIPE	CMP
DRAIN	D
ELEVATION	EL
FENCE	FC
FIRST FLOOR	FF
FORCE MAIN	FM
GAS MAIN	G
GUIDE POST	GP
HYDRANT	HYD
INVERT	INV
IRON PIN	IP
LAMP POLE	LP
MANHOLE	MH
MONUMENT	MON
PERMANENT GRADE	%
PERM. EASEMENT	PE
RIGHT OF WAY	ROW
SEWER	S
STONE	ST
SEWER MANHOLE	SMH
TEMP. EASEMENT	TE
WATER	W
WOOD	WD
WOVEN WIRE	WW
PROPERTY LINE	P
GRAVEL	GRAV

SELECTMEN
ELIZABETH A THIBODEAU CHAIRPERSON
ASA H. KNOWLES JR.,
BURWELL PIKE
TOWN MANAGER
E. RUSSELL BAILEY



LEGEND

PROPOSED SANITARY SEWER WITH LATERAL	
EXISTING SANITARY SEWER WITH LATERAL	
SANITARY SEWER WITH PROFILE ON ANOTHER SHEET	
FORCE MAIN	
PUMP STATION (PROPOSED/EXISTING)	P.S. / P.S.
OCEAN OUTFALL WITH STATIONING	
MANHOLE (PROPOSED/EXISTING)	M.H. / M.H.
CATCH BASIN (PROPOSED/EXISTING)	C.B. / C.B.
CULVERT	
HYDRANT	HYD
WATER MAIN	W
WATER VALVE/WATER SERVICE	W.V. / W.S.
GAS MAIN	G
GAS VALVE/GAS SERVICE	G.V. / G.S.
UNDERGROUND TELEPHONE/ELECTRICAL	T / E
STREAM/BROOK	
POND/WET AREA	
RIVER	
WOODS AND/OR BRUSH LINE	
APPROXIMATE TOWN/STATE LINE	
APPROXIMATE RIGHT-OF-WAY LINE	
EXISTING CONTOUR	50
PROPOSED CONTOUR	50
LEDGE OUTCROP	
RETAINING WALL	
GUARD RAIL	
STONE WALL	
FENCE	
CONIFEROUS/DECIDUOUS TREES	
SHRUBS OR BUSH	
HOUSE OR BUILDING	
HOUSE NUMBER	21
HOUSE WITH SEWER SERVICE	
UTILITY POLE	
LAMP POLE	L.P.
MAILBOX	M.B.
SIGN	
BASELINE CONTROL POINT	M-1
PIPE INSULATION	
FABRIC FENCE SEDIMENTATION CONTROL	



TITLE	DRAWING NO.	TITLE	DRAWING NO.
[illegible]	1	STARD ROAD	31
CONTRACT 9 SHEET & SEWER LAYOUT	1	CHASE WAY	32
LEDGE ROAD	2	CHASE WAY	33
LEDGE ROAD	3	CHASE WAY CROSS COUNTRY	34
ALLISON DRIVE	4	NEW ZEALAND ROAD	35
ALLISON DRIVE	5	STARD ROAD	36
LEDGE ROAD & [illegible]	6	PAGES LANE	37
BLACKSMAN [illegible]	7	PAGES LANE	38
BLACKSMAN [illegible]	8	FOGGS CORNER ROAD	39
BLACKSMAN ROAD	9	FOGGS LANE	40
RILEY ROAD	9	FOGGS LANE	41
BLACKSMAN [illegible]	10	BROOKS DRIVE	42
[illegible]	11	BROOKS DRIVE	43
TRUE LANE	12	LEDGE ROAD PUMP STATION	44
TRUE ROAD	13	LEDGE ROAD PUMP STATION (DETAILS)	45
TRUE ROAD	14	RILEY ROAD PUMP STATION	46
TRUE ROAD	15	RILEY ROAD PUMP STATION (DETAILS)	47
TRUE ROAD	16	OLD NEW BOSTON ROAD PUMP STATION	48
TRUE LANE	17	OLD NEW BOSTON ROAD PUMP STATION (DETAILS)	49
NEW ZEALAND [illegible]	18	FOLLY MILL ROAD PUMP STATION	50
MAPLE RIDGE ROAD	19	FOLLY MILL ROAD PUMP STATION (DETAILS)	51
MAPLE RIDGE ROAD	20	STARD ROAD PUMP STATION	52
OLD NEW BOSTON ROAD	21	STARD ROAD PUMP STATION (DETAILS) PUMP STATION BUILDING EROSION CONTROL DETAILS	53 53A 54
NEW ZEALAND ROAD	22		
DIXON WAY	23	STANDARD MANHOLE DETAILS - SHEET 1	55
FOLLY MILL ROAD	24	STANDARD MANHOLE DETAILS - SHEET 2	56
FOLLY MILL ROAD [illegible]	25	STANDARD TRENCH SECTIONS	57
BATCHELDER ROAD	26	MISCELLANEOUS DETAILS	58
BATCHELDER ROAD	27	SLEEVE & JACKING DETAILS	59
BATCHELDER ROAD	28	HOUSE SEWER DETAILS	60
STARD ROAD	29		
STARD ROAD	30		

TOWN OF SEABROOK, NEW HAMPSHIRE

CONTRACT # 9

SHEET & SEWER LAYOUT

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

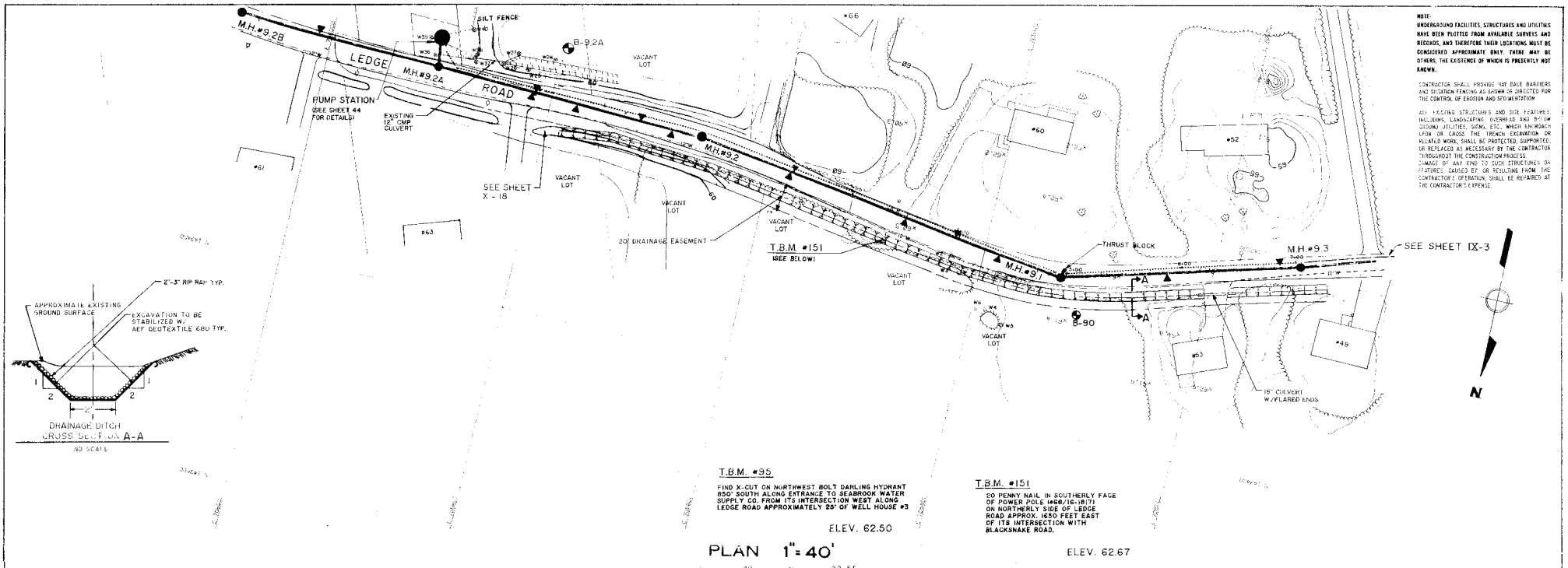
STRATHAM, NEW HAMPSHIRE

THE STATE OF NEW HAMPSHIRE — BRADFORD M. JONES NO. 5278 — REGISTERED PROFESSIONAL ENGINEER

ISSUE NO.	DRAWN	DATE	CHECKED	ENGINEER	APPROVED	DATE
0	ISSUED FOR APPROVAL					
	WM	7/91	JAH	WM	BHJ	7/91

PROJECT SUPERVISOR — APPROVED

JOB NO. 1444/8704 — CONTRACT NO. IX — SHEET 01 OF 60



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

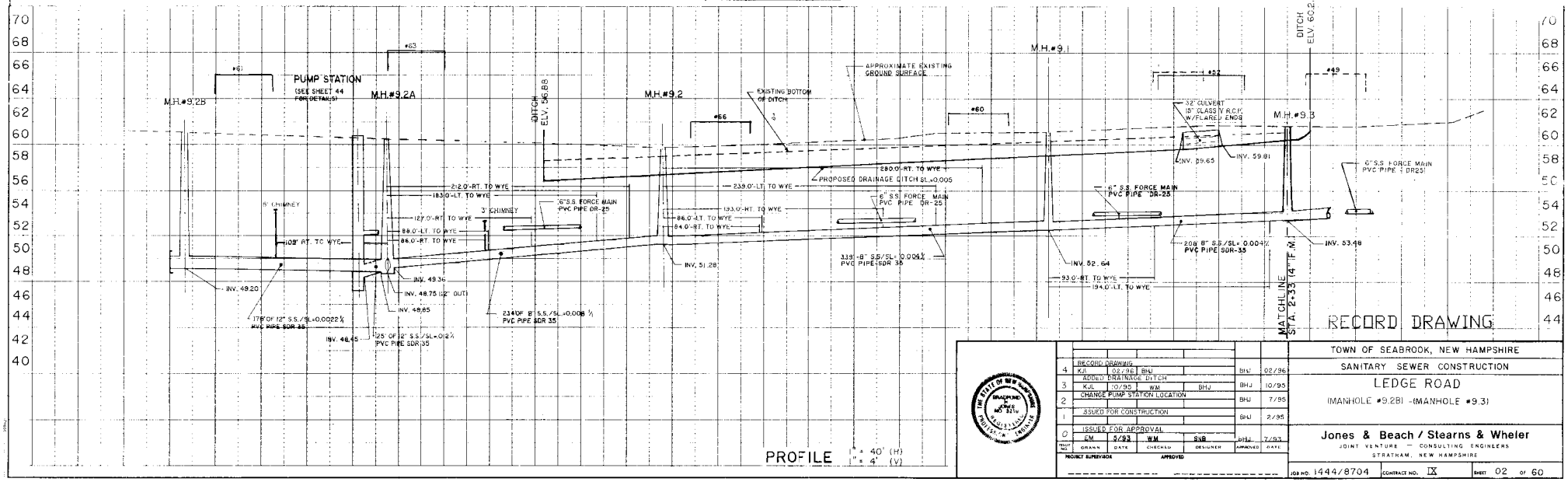
CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

T.B.M. #95
FIND X-CUT ON NORTHWEST BOLT DARLING HYDRANT 850' SOUTH ALONG ENTRANCE TO SEABROOK WATER SUPPLY CO. FROM ITS INTERSECTION WEST ALONG LEDGE ROAD APPROXIMATELY 25' OF WELL HOUSE #3
ELEV. 62.50

T.B.M. #151
20 PENNY NAIL IN SOUTHERLY FACE OF POWER POLE (#68/16-18/7) ON NORTHERLY SIDE OF LEDGE ROAD APPROX. 1650 FEET EAST OF ITS INTERSECTION WITH BLACKSNAKE ROAD.
ELEV. 62.67

PLAN 1" = 40'
40 0 20 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

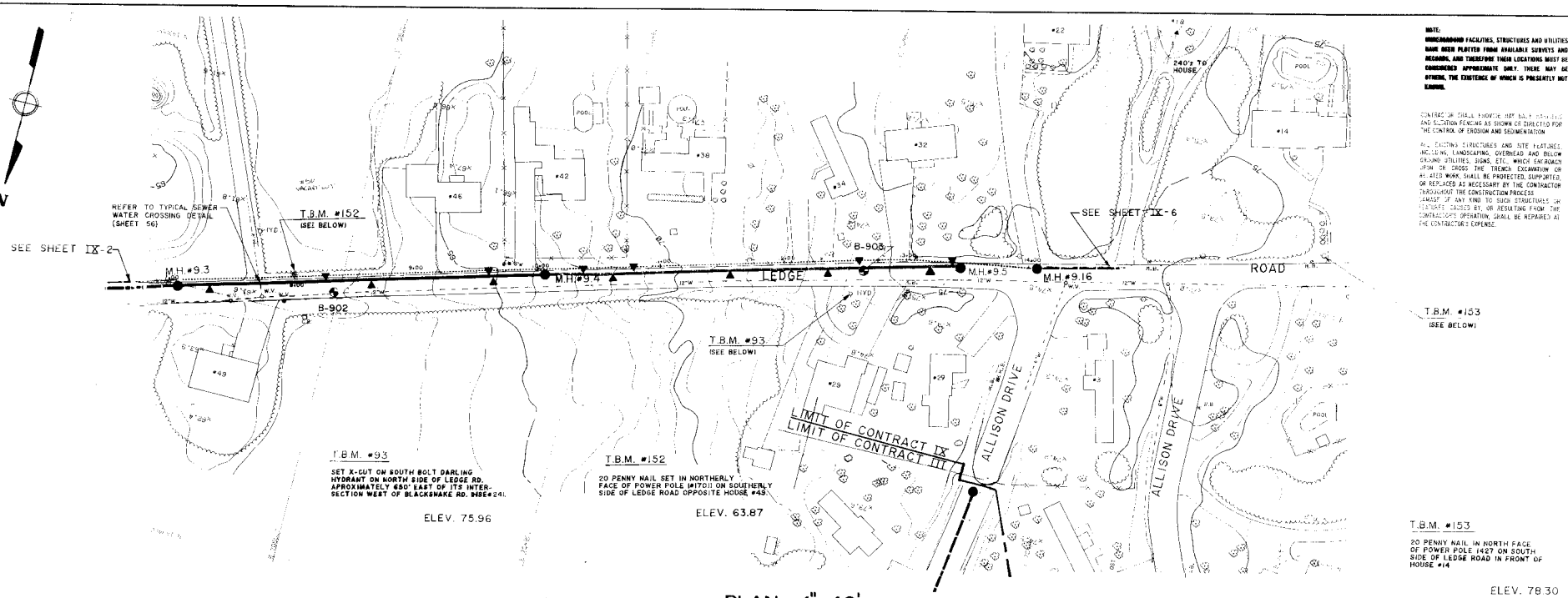
4	RECORD DRAWING	KJL	02/96	BHJ		BHJ	02/96
3	ADDED DRAINAGE DITCH	KJL	10/95	WM	BHJ	BHJ	10/95
2	CHANGE PUMP STATION LOCATION					BHJ	7/95
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	GM	5/93	WM	SNB	BHJ	7/93
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
LEDGE ROAD
(MANHOLE #9.2B1 -(MANHOLE #9.3)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 02 OF 60


N
SEE SHEET IX-2
REFER TO TYPICAL SEWER WATER CROSSING DETAIL (SHEET 56)
T.B.M. #152
(SEE BELOW)
M.H.#9.3
M.H.#9.4
M.H.#9.5
M.H.#9.16
LEDGE ROAD
B-902
B-903
SEE SHEET IX-6
240'± TO HOUSE
T.B.M. #153
(SEE BELOW)
T.B.M. #93
(SEE BELOW)
LIMIT OF CONTRACT IX
LIMIT OF CONTRACT III
ALLISON DRIVE
ALLISON DRIVE
T.B.M. #93
SET X-CUT ON SOUTH BOLT DARLING HYDRANT ON NORTH SIDE OF LEDGE RD. APPROXIMATELY 650' EAST OF ITS INTERSECTION WEST OF BLACKSNAKE RD. (SEE #24).
ELEV. 75.96
T.B.M. #152
20 PENNY NAIL SET IN NORTHERLY FACE OF POWER POLE (#170) ON SOUTHERLY SIDE OF LEDGE ROAD OPPOSITE HOUSE #43.
ELEV. 63.87
T.B.M. #153
20 PENNY NAIL IN NORTH FACE OF POWER POLE (#27 ON SOUTH SIDE OF LEDGE ROAD IN FRONT OF HOUSE #14
ELEV. 78.30

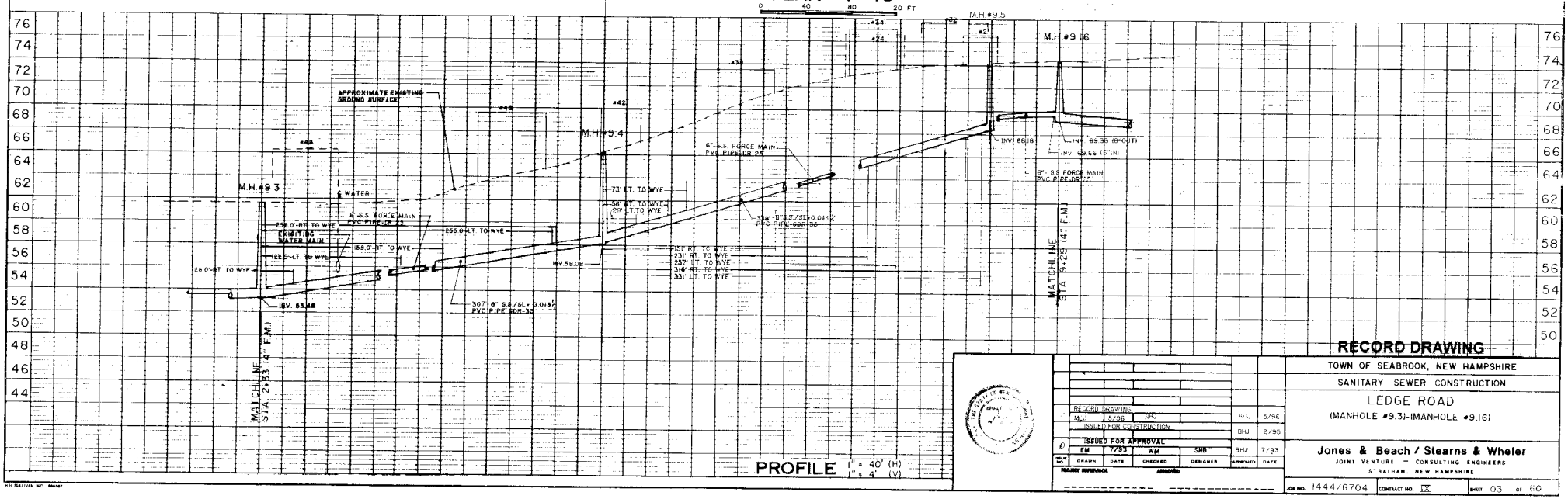
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR ASSOCIATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

	RECORD DRAWING				BHJ	5/96
1	ISSUED FOR CONSTRUCTION				BHJ	2/95
0	ISSUED FOR APPROVAL				BHJ	7/93
NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
	EM	7/93	WM	SNB		

PROJECT SUPERVISOR — APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

LEDGE ROAD

(MANHOLE #9.3)-(MANHOLE #9.16)

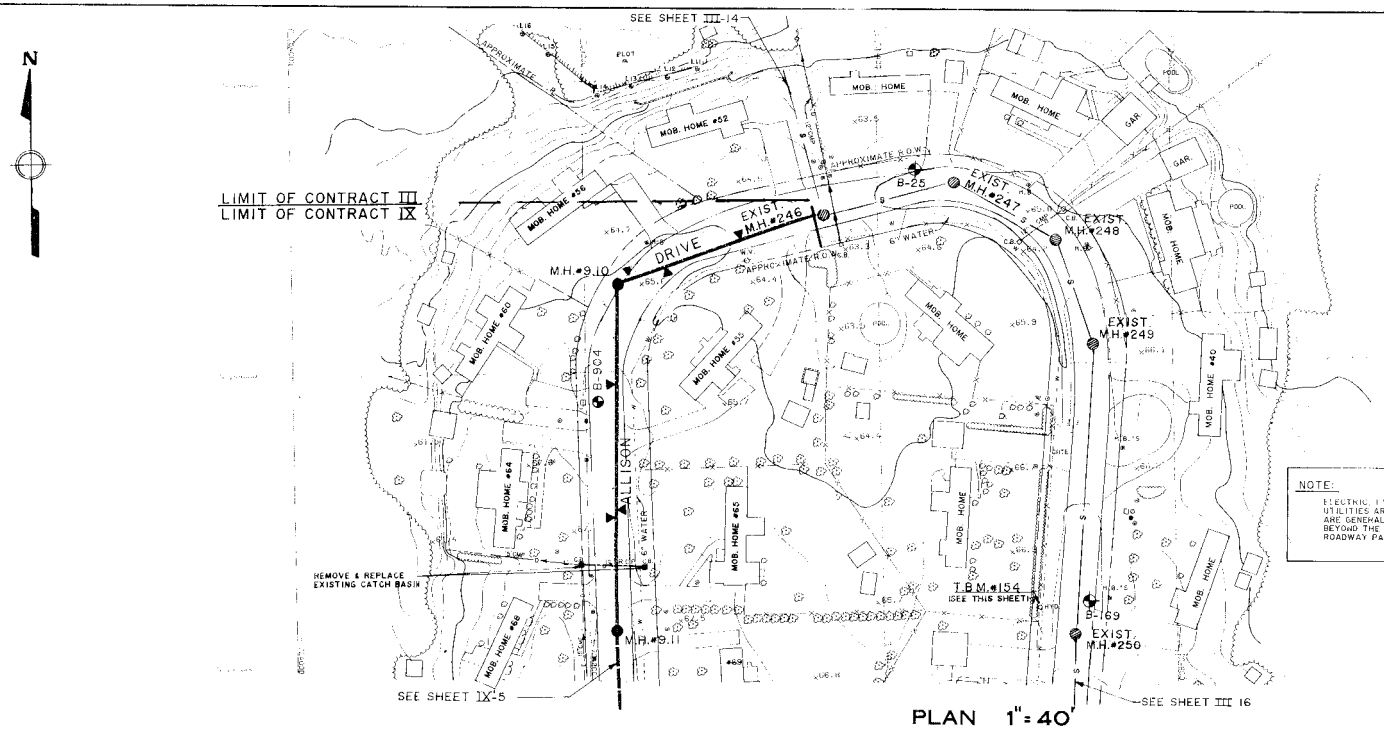
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 03 OF 60

H.H. SULLIVAN, INC. 886387



PLAN 1" = 40'

NOTE:
ELECTRIC, T.V. CABLE, & TELEPHONE UTILITIES ARE UNDERGROUND AND ARE GENERALLY LOCATED BEYOND THE OUTER EDGE OF ROADWAY PAVEMENT.

T.B.M.#154

X-CUT ON BOLT EAST SIDE HYD. ON WESTERLY SIDE OF ALLISON DRIVE APPROX. 660 FEET NORTH OF ITS EASTERLY INTERSECTION WITH LEDGE ROAD.

ELEV. 68.65

NOTE:
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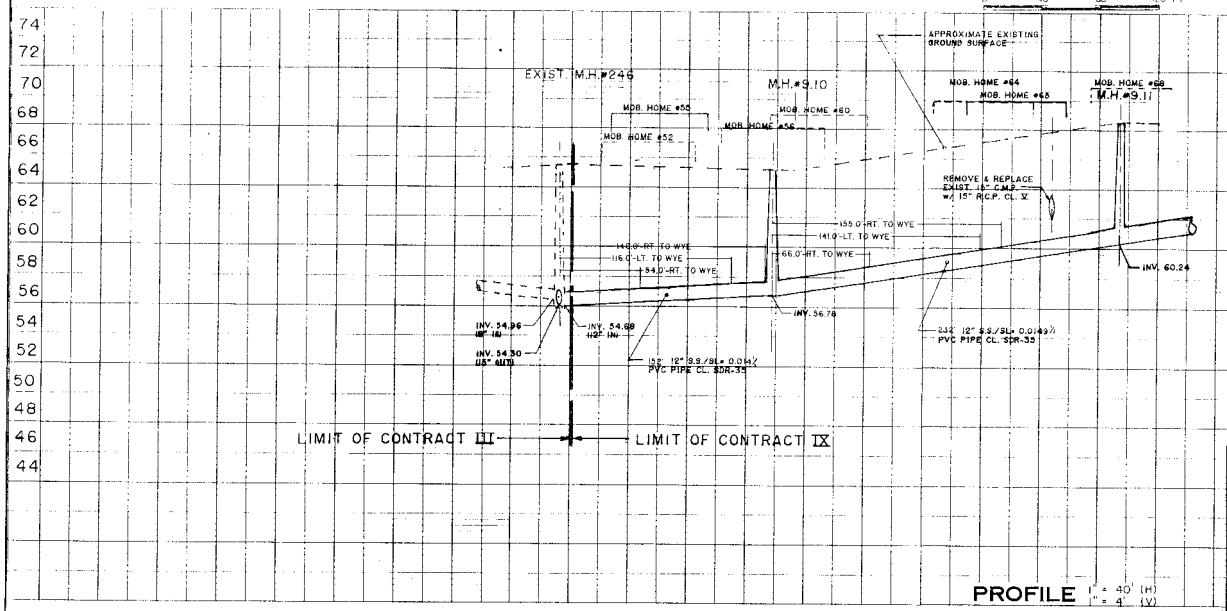


PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

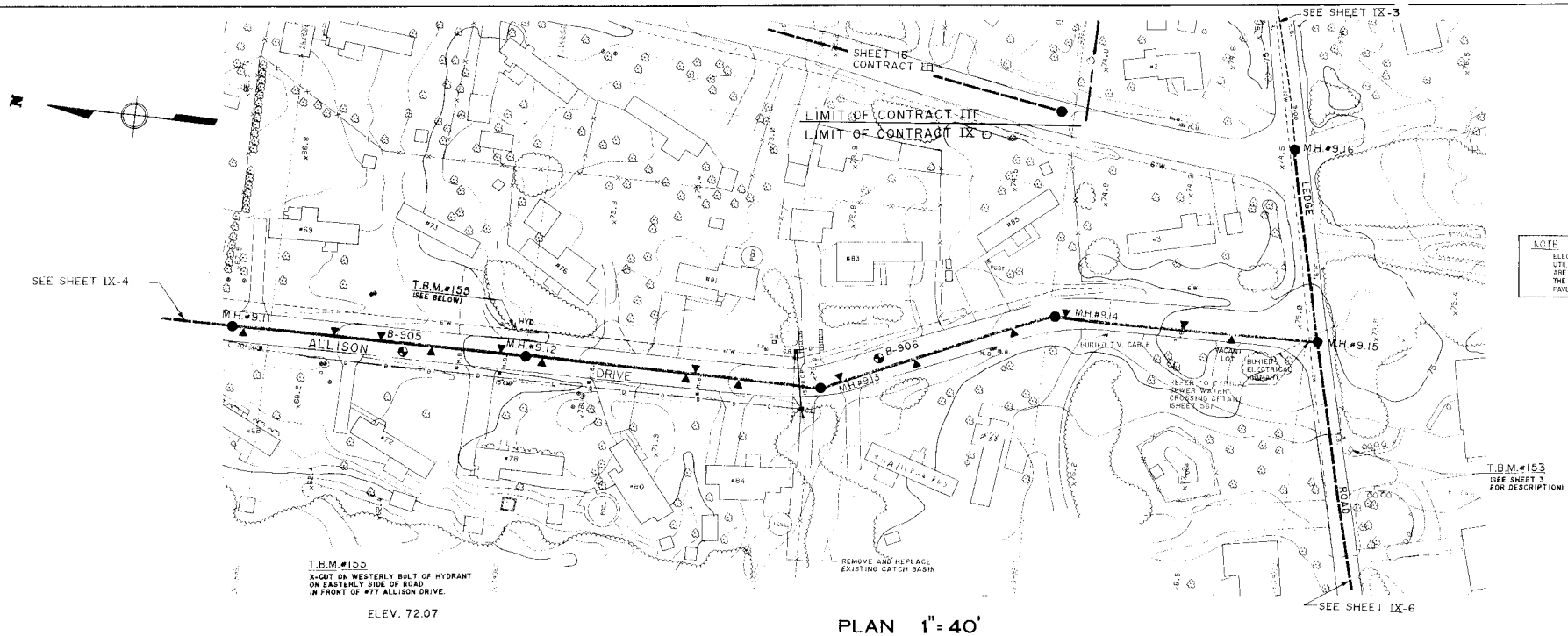
NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	K.M.	02/96	BHJ		BHJ	02/96
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	E.M.	5/93	W.M.	S.N.D.	BHJ	7/93

PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
ALLISON DRIVE
(MANHOLE #9.11)-(MANHOLE #246)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 04 OF 60



NOTE:
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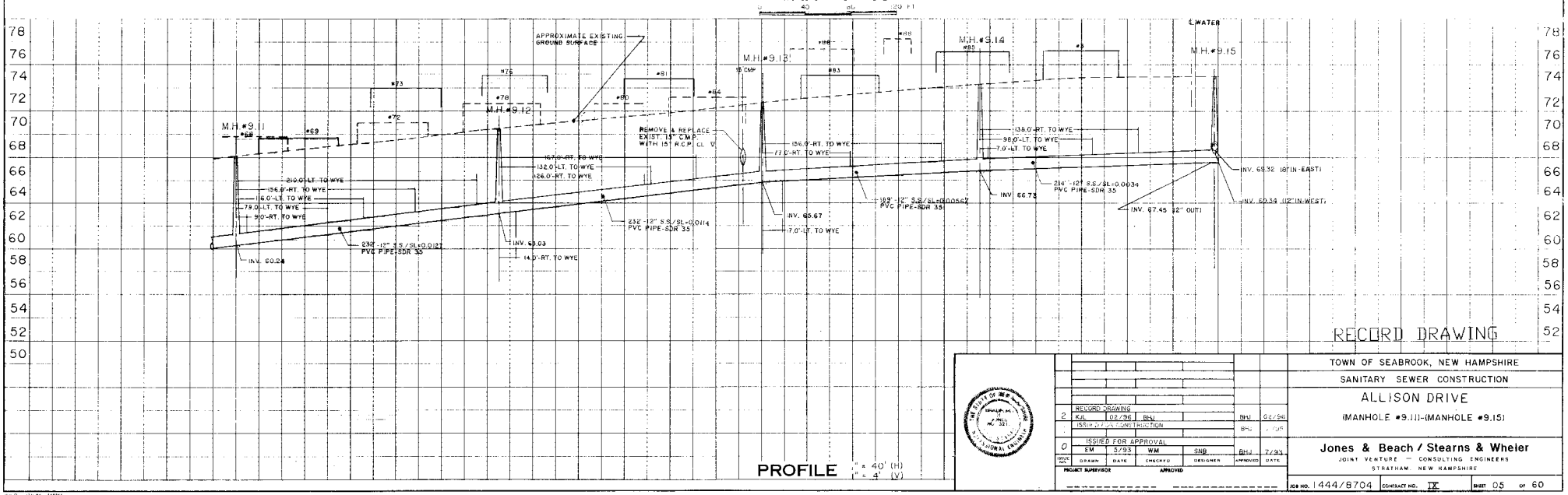
NOTE
ELECTRIC, T.V. CABLE, & TELEPHONE UTILITIES ARE UNDERGROUND AND ARE GENERALLY LOCATED BEYOND THE OUTER EDGE OF ROADWAY PAVEMENT.

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	KJL	02/96	BHJ		BHJ	02/96
	ISSUED FOR CONSTRUCTION				BHJ	/ /95
0	ISSUED FOR APPROVAL					
	EM	5/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

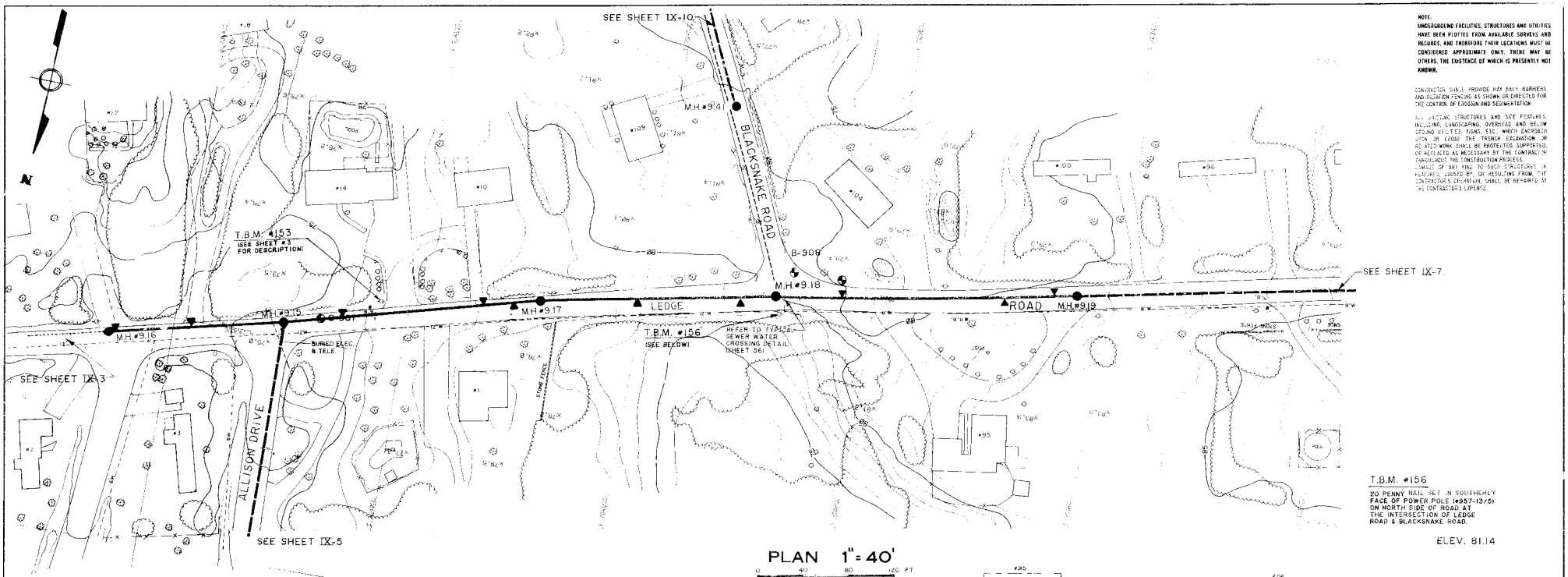
SANITARY SEWER CONSTRUCTION

ALLISON DRIVE

(MANHOLE #9.11)-(MANHOLE #9.15)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 05 OF 60



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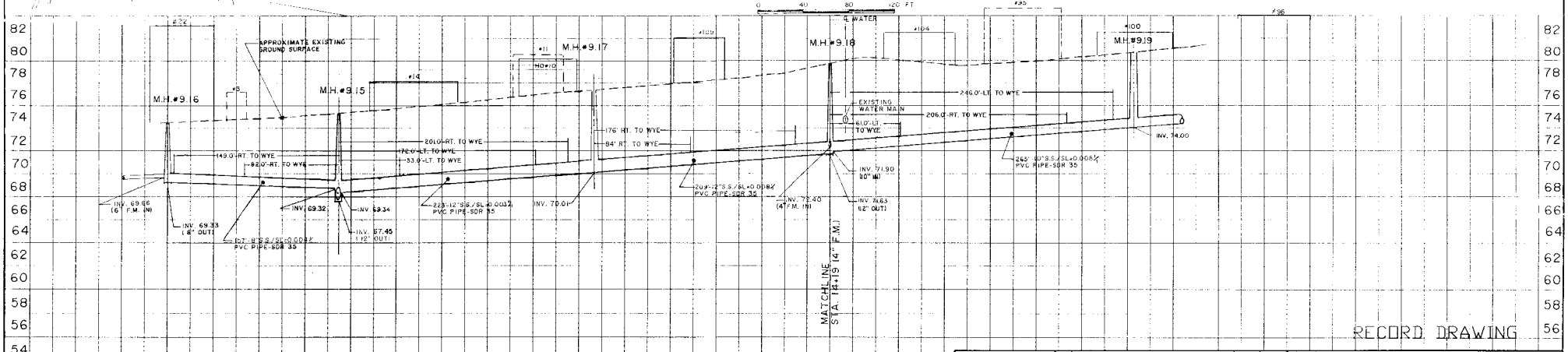
T.B.M. #156
20 PENNY NAIL SET IN SOUTHERLY FACE OF POWER POLE (#957-13/5) ON NORTH SIDE OF ROAD AT THE INTERSECTION OF LEDGE ROAD & BLACKSNAKE ROAD.

ELEV. 81.14

PLAN 1"= 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

2	RECORD DRAWING	KJL/MEJ	5/96	BHJ		BHJ	5/96
1	ISSUED FOR APPROVAL					BHJ	5/95
0	ISSUED FOR APPROVAL	EM	5/93	WM	SNB	BHJ	7/93
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SURVEYOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BLACKSNAKE ROAD

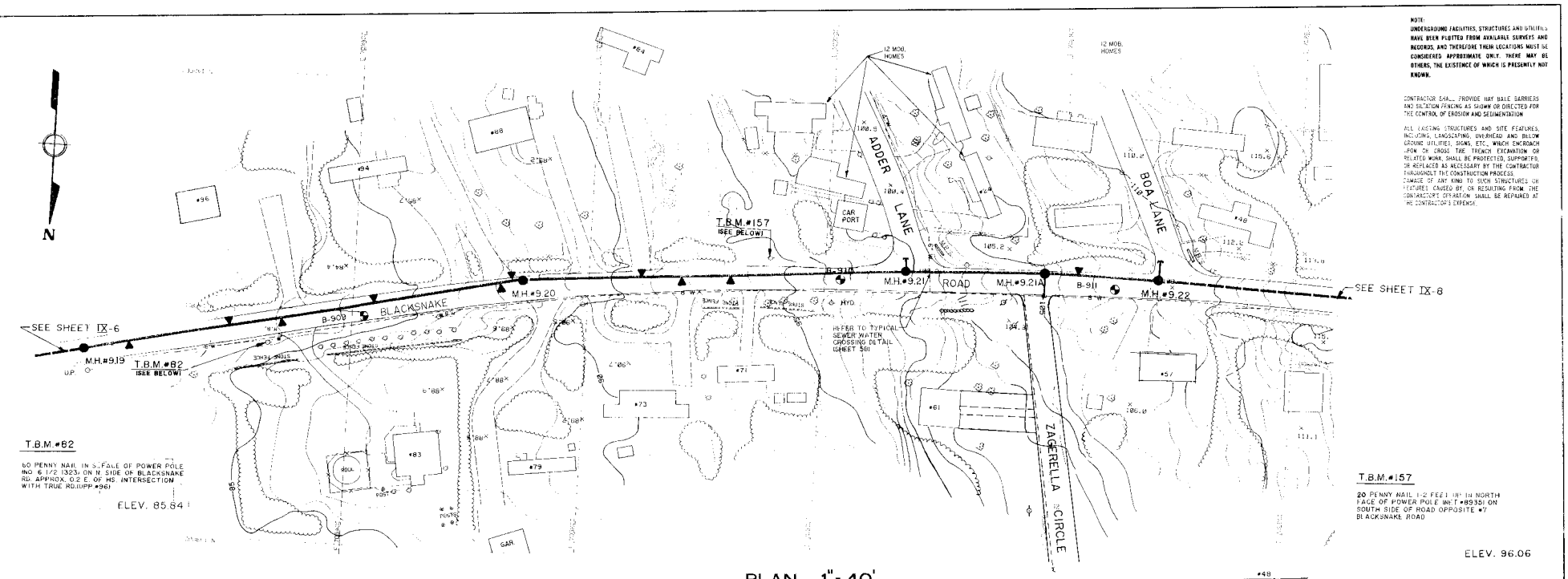
(MANHOLE #9.16)-(MANHOLE #9.19)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 06 OF 60


N
BLACKSNAKE ROAD
ADER LANE
BOA LANE
ZAGERELLA CIRCLE
CAR PORT
12 MOD. HOMES
M.H.#9.19
M.H.#9.20
M.H.#9.21
M.H.#9.21A
M.H.#9.22
T.B.M.#82
(SEE BELOW)
T.B.M.#157
(SEE BELOW)
B-909
B-910
B-911
SEE SHEET IX-6
SEE SHEET IX-8
REFER TO TYPICAL SEWER WATER CROSSING DETAIL (SHEET 58)
T.B.M.#82
60 PENNY NAIL IN S. FACE OF POWER POLE NO. 6 1/2 (323) ON N. SIDE OF BLACKSNAKE RD. APPROX. 0.2 E. OF MS. INTERSECTION WITH TRUE RD.(UPP.#96)
ELEV. 85.84
T.B.M.#157
20 PENNY NAIL 1-2 FEET (IN) IN NORTH FACE OF POWER POLE (NO.T#8935) ON SOUTH SIDE OF ROAD OPPOSITE #7 BLACKSNAKE ROAD
ELEV. 96.06
NOTE:
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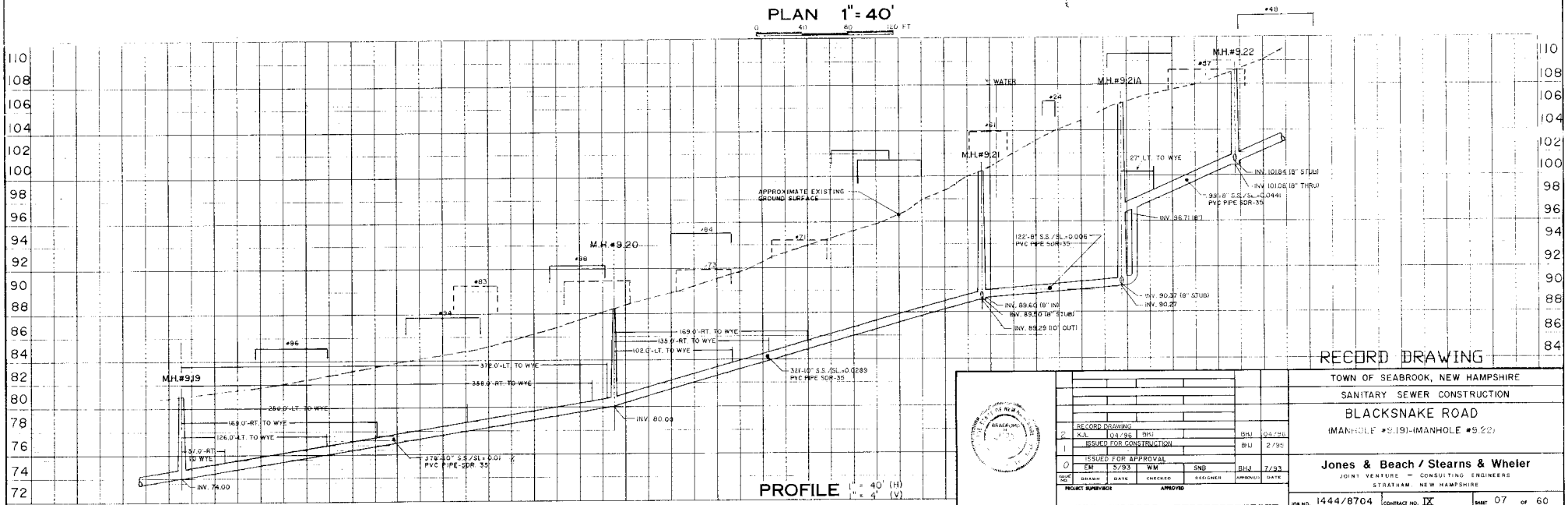
PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BLACKSNAKE ROAD

(MANHOLE #9.19)-(MANHOLE #9.22)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	K.A.	04/96	BHJ		BHJ	04/96
	RECORD DRAWING				BHJ	2/95
1	ISSUED FOR CONSTRUCTION					
0	ISSUED FOR APPROVAL					
	EM	5/93	WM	SNB	BHJ	7/93

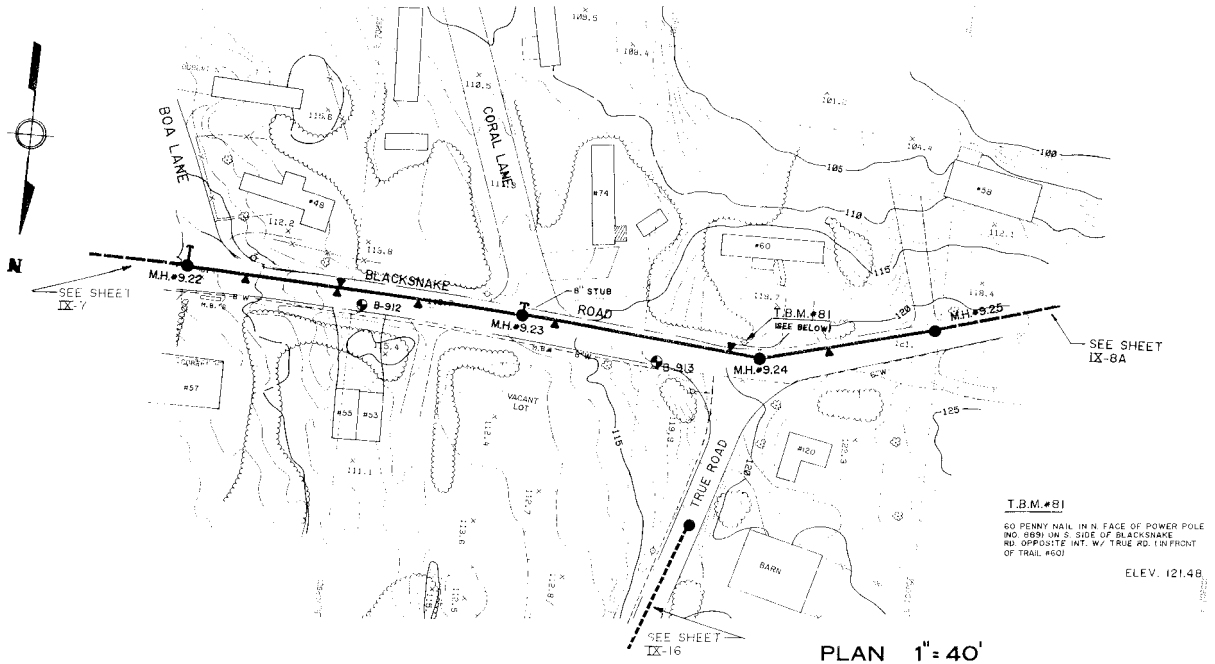
PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 07 OF 60



T.B.M.#81

60 PENNY NAIL IN N. FACE OF POWER POLE (NO. 669) ON S. SIDE OF BLACKSNAKE RD. OPPOSITE INT. W/ TRUE RD. (IN FRONT OF TRAIL #60)

ELEV. 121.48

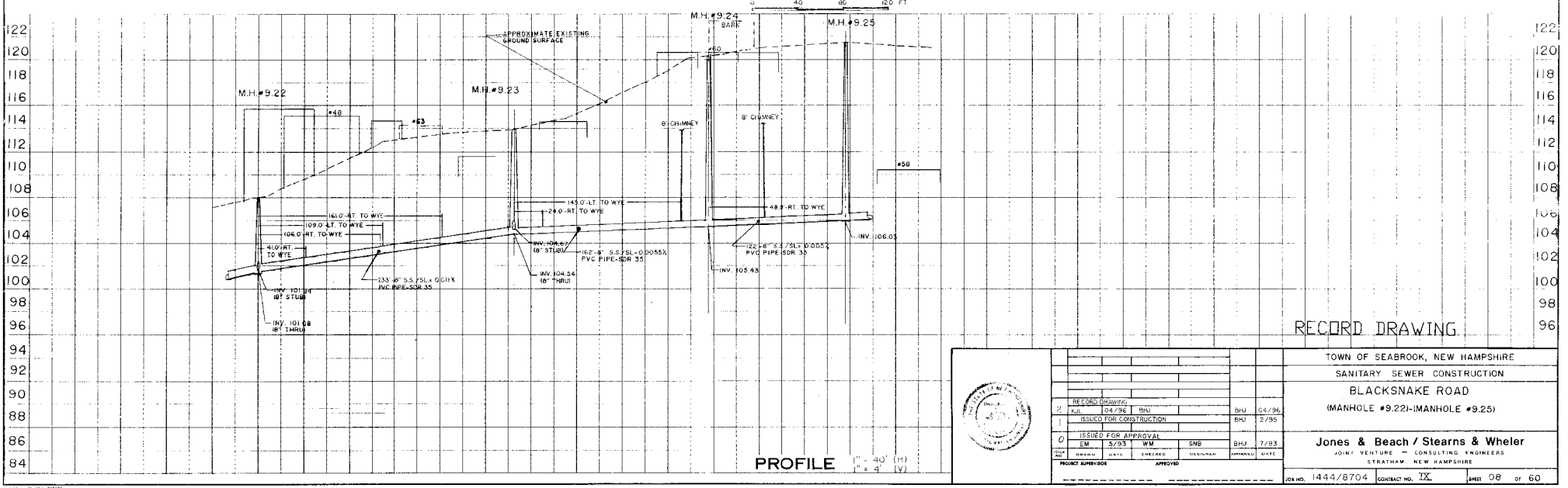
NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND UNDERGROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING	KJL	04/96	BHJ		BHJ	04/96
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	EM	5/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BLACKSNAKE ROAD

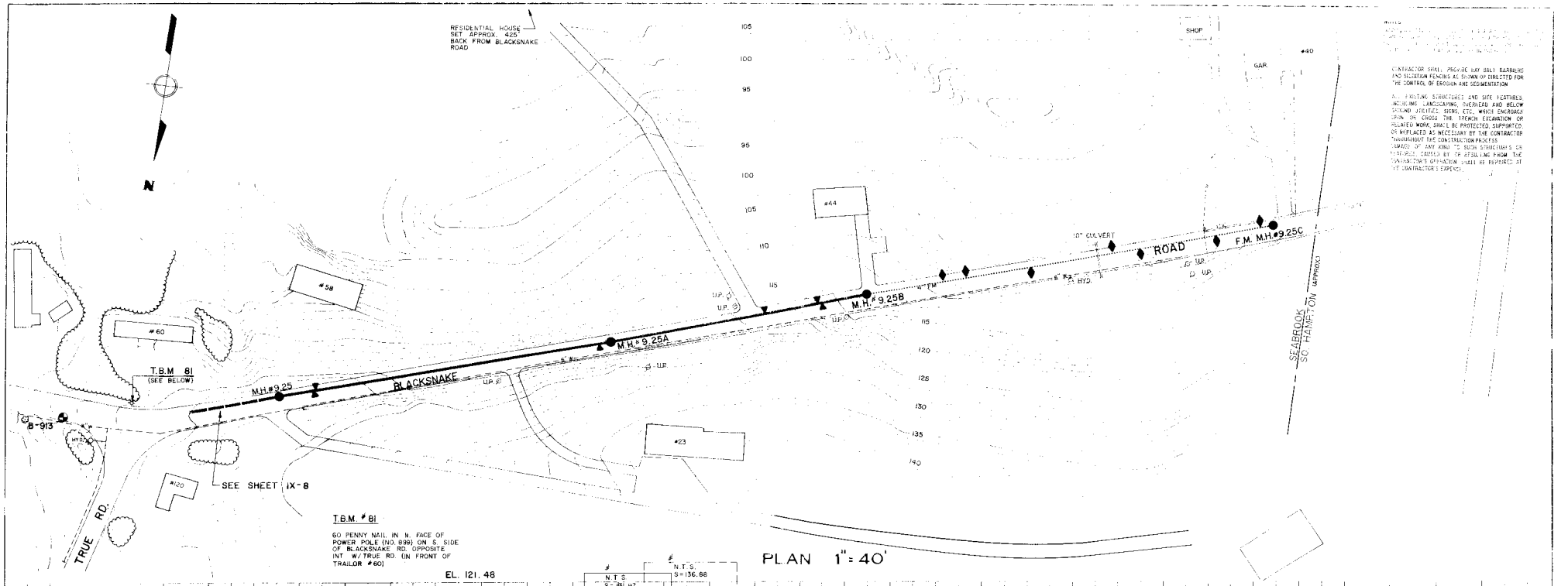
(MANHOLE #9.22)-(MANHOLE #9.25)

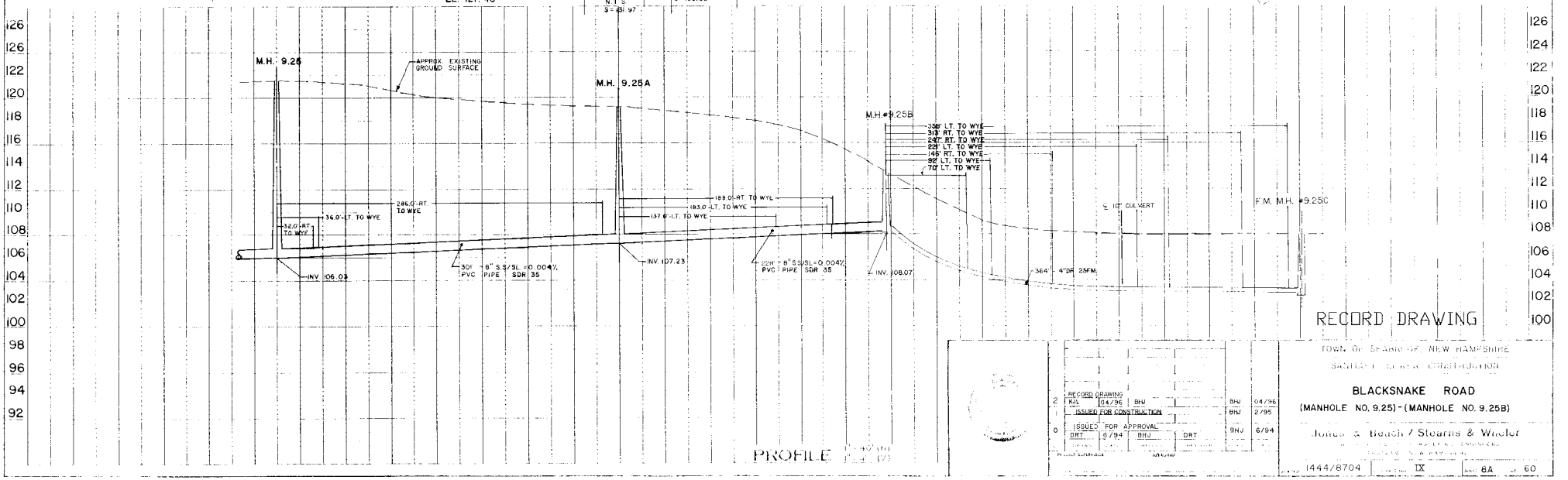
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 08 OF 60





RECORD DRAWING

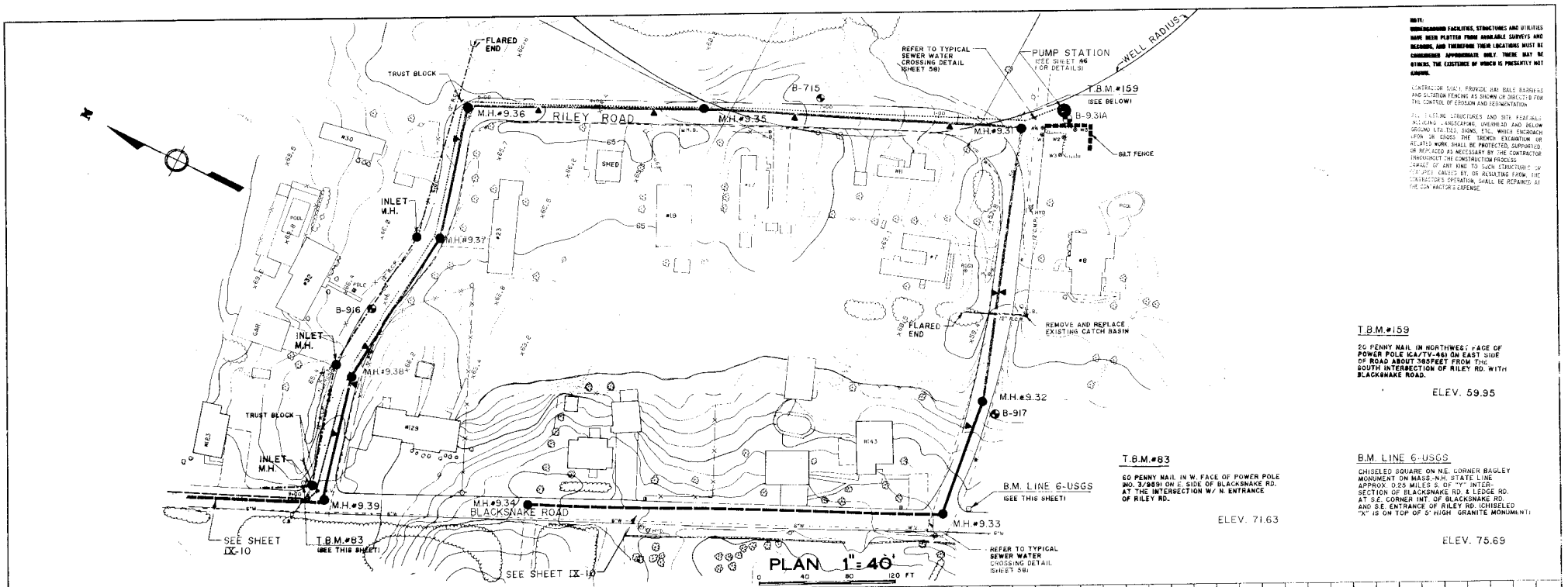
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

BLACKSNAKE ROAD
(MANHOLE NO. 9.25) - (MANHOLE NO. 9.25B)

2	RECORD DRAWING	KJL	04/96	BHJ		BHJ	04/96
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	DRT	6/94	BHJ	DRT	BHJ	6/94

Jones & Beach / Stearns & Wheler

1444/8704 | IX | SHEET 8A OF 60



NOTE:
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ALL EXISTING STRUCTURES AND SITE FEATURES INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR EDGES THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

T.B.M.#159

20 PENNY NAIL IN NORTHWEST FACE OF POWER POLE ICA/TV-461 ON EAST SIDE OF ROAD ABOUT 385FEET FROM THE SOUTH INTERSECTION OF RILEY RD. WITH BLACKSNAKE ROAD.

ELEV. 59.95

T.B.M.#83

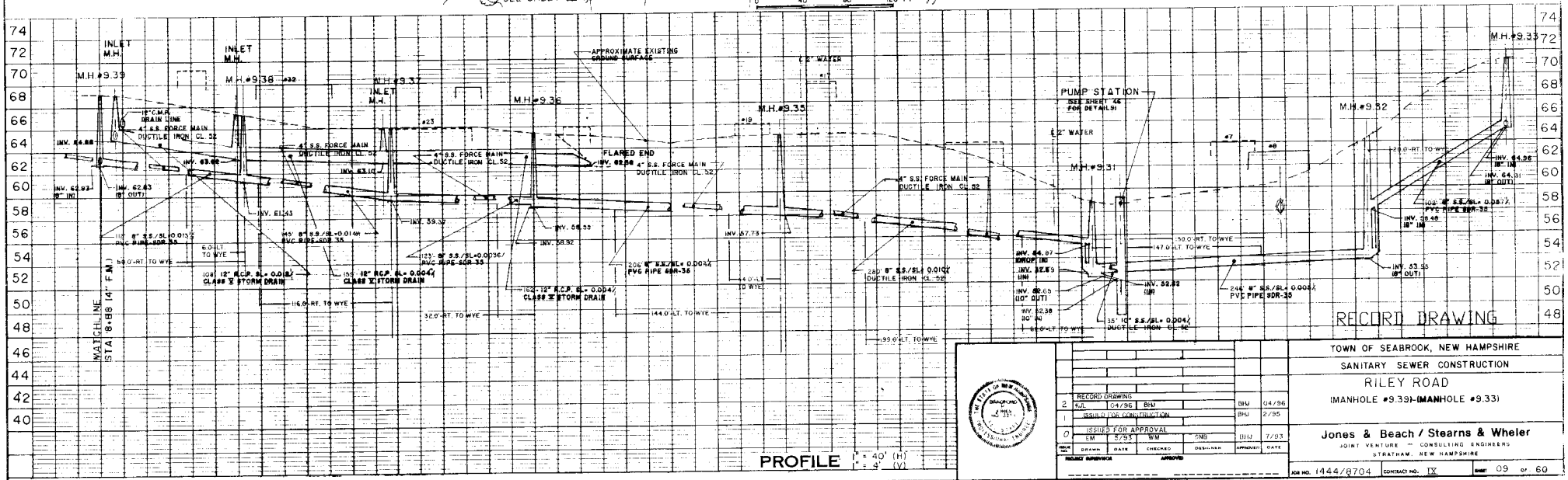
60 PENNY NAIL IN W. FACE OF POWER POLE (NO. 3/9891) ON E. SIDE OF BLACKSNAKE RD. AT THE INTERSECTION W/ N. ENTRANCE OF RILEY RD.

ELEV. 71.63

B.M. LINE 6-USGS

CHISELED SQUARE ON N.E. CORNER BAGLEY MONUMENT ON MASS.-N.H. STATE LINE APPROX. 0.25 MILES S. OF "Y" INTERSECTION OF BLACKSNAKE RD. & LEDGE RD. AT S.E. CORNER INT. OF BLACKSNAKE RD. AND S.E. ENTRANCE OF RILEY RD. (CHISELED "X" IS ON TOP OF 5' HIGH GRANITE MONUMENT)

ELEV. 75.69



2	RECORD DRAWING	K.L.	04/96	B.H.J.		B.H.J.	04/96
1	ISSUED FOR CONSTRUCTION					B.H.J.	2/95
0	ISSUED FOR APPROVAL	E.M.	5/93	W.M.	S.N.B.	B.H.J.	7/93
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

RILEY ROAD

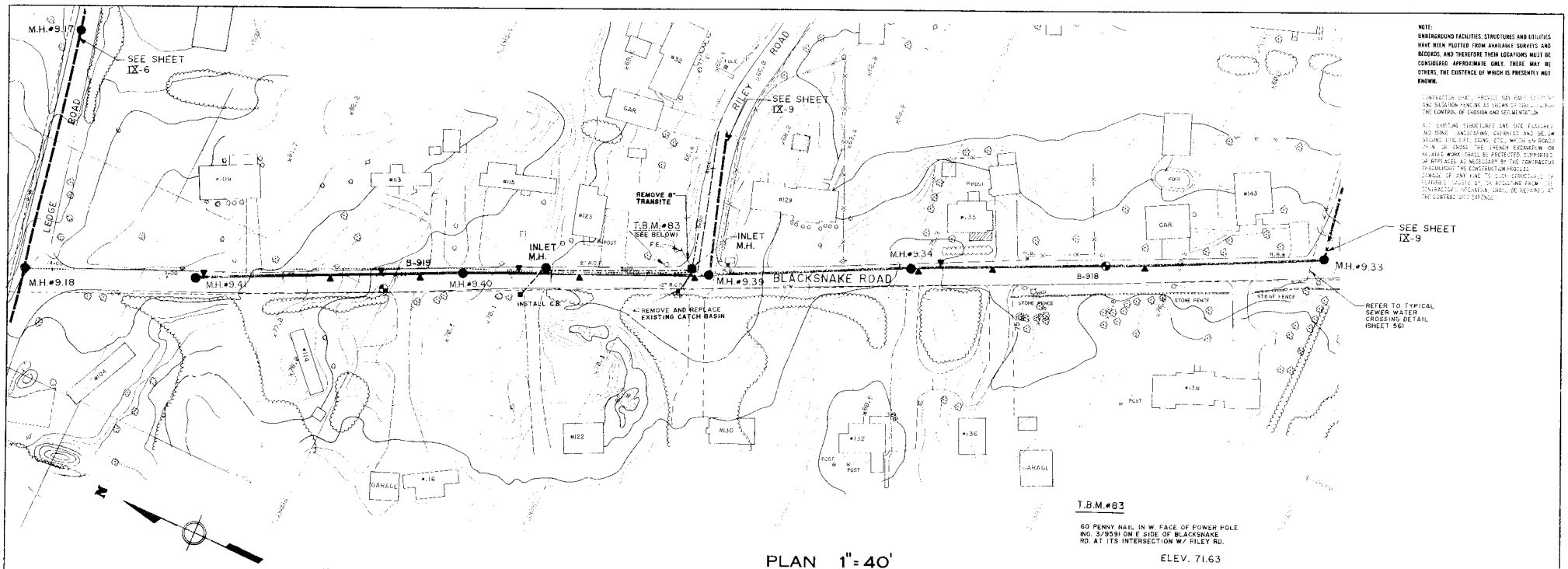
(MANHOLE #9.39)-(MANHOLE #9.33)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 09 OF 60



NOTE:
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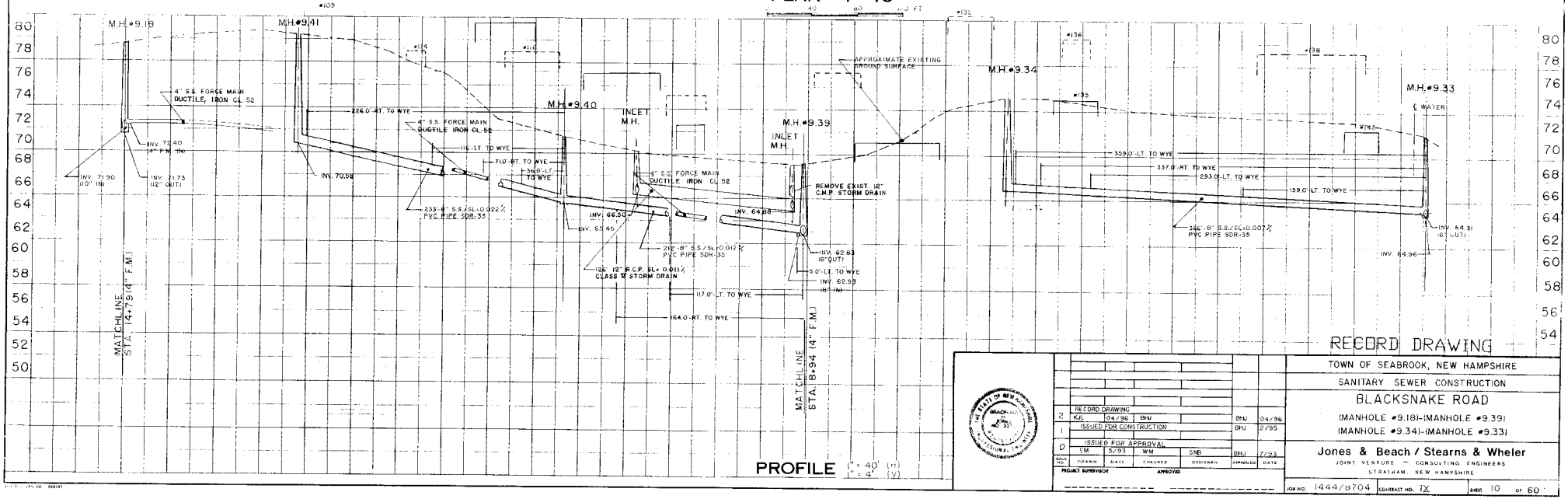
ALL EXISTING STRUCTURES AND SITE FEATURES INCLUDING LANDSCAPING, SHRUBS AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ON ROADS OR R.O.W.S CROSS THE TRENCH EXCAVATION OR ADJACENT #/OR SHALL BE PROTECTED, SUPPORTED OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PERIOD. ANY DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATION SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1"=40'



PROFILE (1" = 40' (H) 1" = 4' (V))

RECORD DRAWING

2	RECORD DRAWING	KJL	10/4/96	BHJ	BHJ	10/4/96
1	ISSUED FOR CONSTRUCTION				BHJ	2/95
0	ISSUED FOR APPROVAL	CM	5/93	WM	SNB	BHJ	7/93
		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BLACKSNAKE ROAD

(MANHOLE #9.18)-(MANHOLE #9.39)

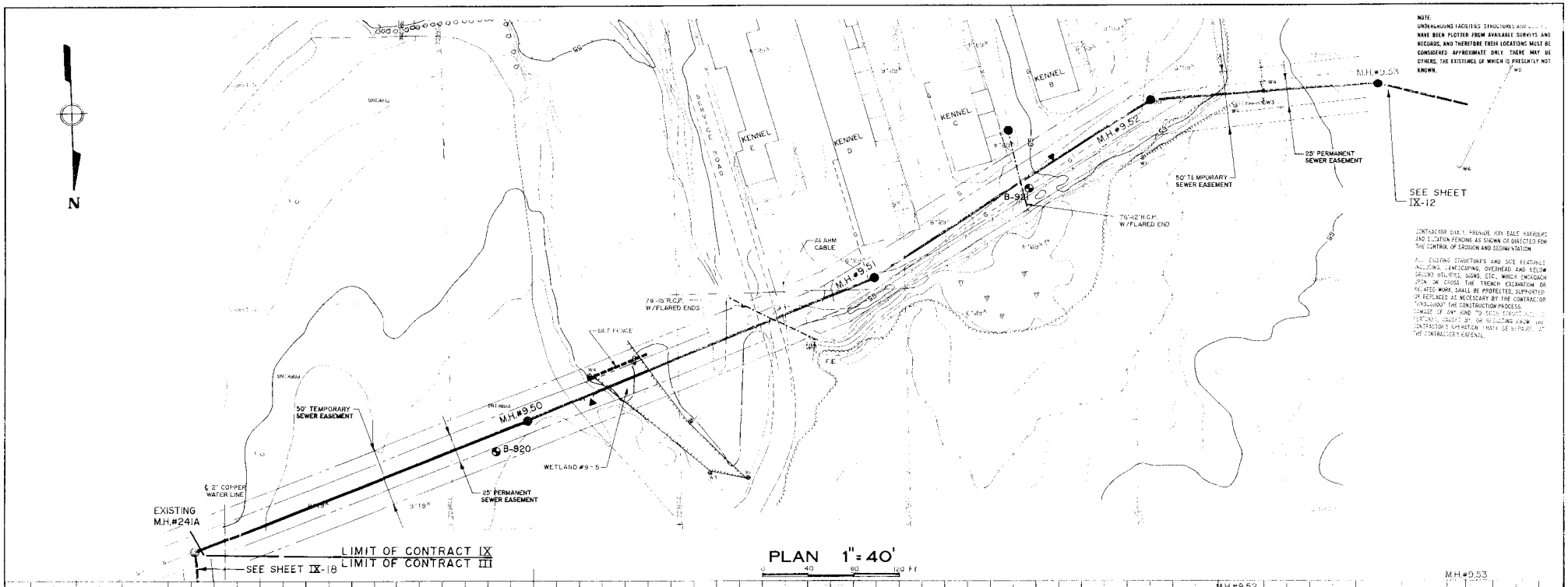
(MANHOLE #9.34)-(MANHOLE #9.33)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 10 OF 60


N
NOTE:
UNDERGROUND FACILITIES STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.
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ALL EXISTING STRUCTURES AND SITE FEATURES INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS.
DAMAGE OF ANY KIND TO SITE STRUCTURES, UTILITIES, CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, MUST BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
KENNEL A
KENNEL B
KENNEL C
KENNEL D
KENNEL E
SERVICE ROAD
M.H.#9.53
M.H.#9.52
M.H.#9.51
M.H.#9.50
B-921
B-920
76'-12" R.C.P. W/FLARED END
78'-15" R.C.P. W/FLARED ENDS
ALARM CABLE
SILT FENCE
WETLAND #9-5
50' TEMPORARY SEWER EASEMENT
25' PERMANENT SEWER EASEMENT
50' TEMPORARY SEWER EASEMENT
25' PERMANENT SEWER EASEMENT
SEE SHEET IX-12
℄ 2" COPPER WATER LINE
EXISTING M.H.#24IA
LIMIT OF CONTRACT IX
LIMIT OF CONTRACT III
SEE SHEET IX-18
PLAN 1"= 40'
0 40 80 120 Ft
EXISTING M.H.#24IA
℄ WATER
M.H.#9.50
APPROXIMATE EXISTING GROUND SURFACE
M.H.#9.51
M.H.#9.52
M.H.#9.53
℄ 12" R.C.P. DRAIN
REMOVE & REPLACE EXIST. 12" R.C.P. CL. V WITH 12" R.C.P. CL. V WITH FLARED END & C.B.
58.0'-RT. TO WYE
120.0'-LT. TO WYE
INV. 52.39 8" IN
INV. 52.44
INV 53.71
INV. 53.74
INV. 54.98
INV. 56.14
INV. 58.07
315' 8" S.S./SL=0.004% PVC PIPE SDR-35
323' 8" S.S./SL=0.004% PVC PIPE SDR-35
291' 8" S.S./SL=0.004% PVC PIPE SDR-35
200' 8" S.S./SL=0.016% PVC PIPE SDR-35
66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36
LIMIT OF CONTRACT III
LIMIT OF CONTRACT IX
PROFILE 1"= 40' (H) 1"= 4' (V)

RECORD DRAWING

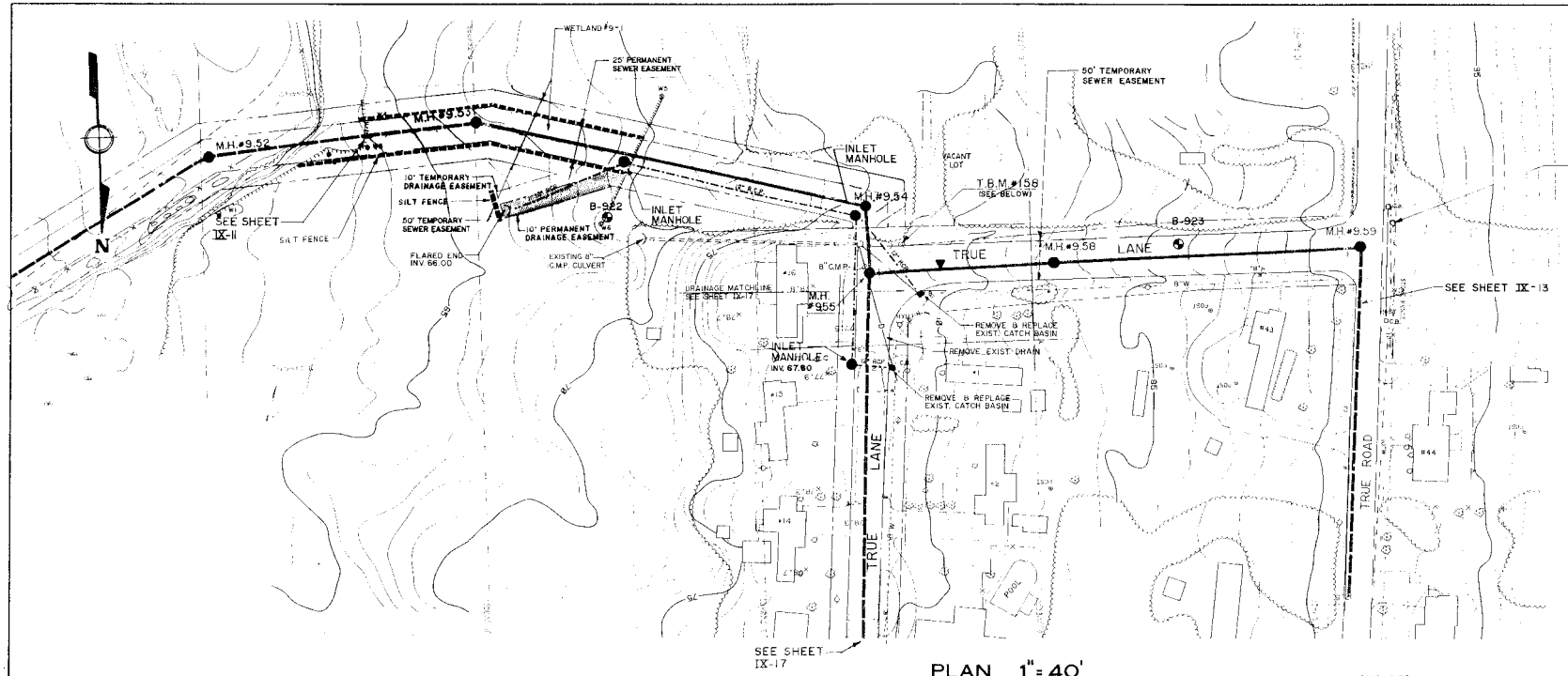
NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	RECORD DRAWING	04/96	BHJ		BHJ	04/96
0	ISSUED FOR APPROVAL	5/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
SEABROOK PARK CROSS COUNTRY
(MANHOLE #9.50)-(MANHOLE #9.53)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 11 OF 60



PLAN 1" = 40'

NOTE:
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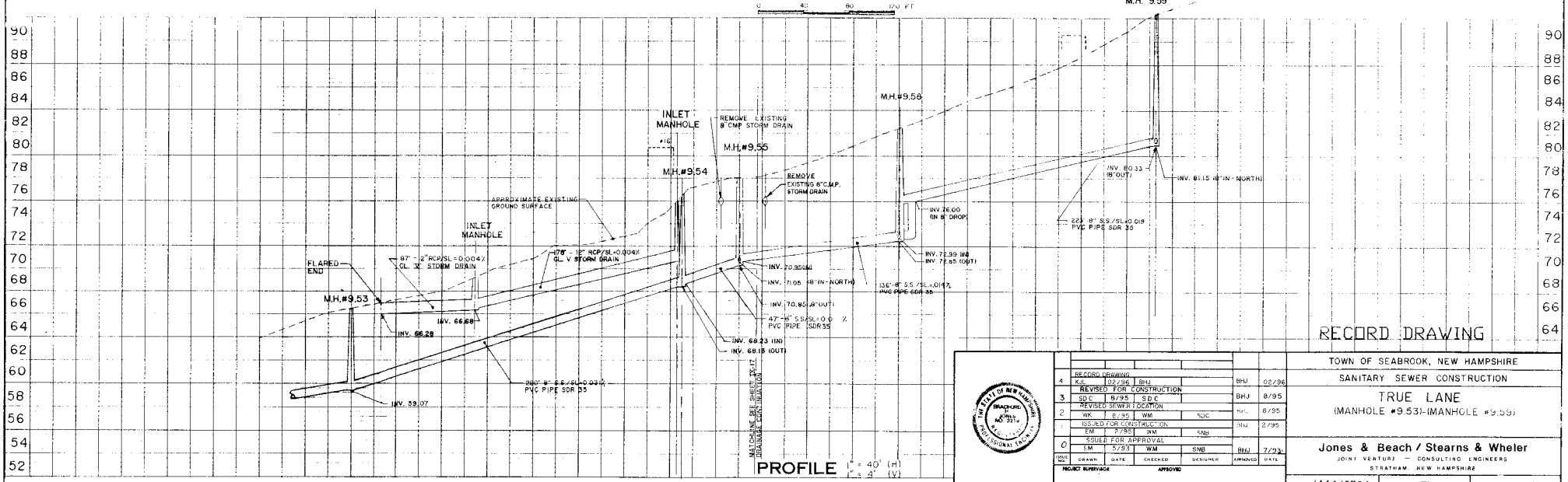
T.B.M.#160
20 PENNY NAIL IN EAST FACE OF POWER POLE #14601 ON WEST SIDE OF TRUE ROAD AT THE INTERSECTION OF TRUE LANE.

ELEV. 93.29

T.B.M.#158
20 PENNY NAIL IN NORTH FACE OF POWER POLE #14621 SOUTH SIDE OF TRUE LANE ABOUT 350 FEET EAST OF THE INTERSECTION OF TRUE LANE AND TRUE ROAD.

ELEV. 79.86



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

4	RECORD DRAWING	KJL	02/96	BHJ		BHJ	02/96
3	REVISED FOR CONSTRUCTION	SDC	8/95	SDC		BHJ	8/95
2	REVISED SEWER LOCATION	WK	8/95	WM	SDC	BHJ	8/95
1	ISSUED FOR CONSTRUCTION	EM	7/95	WM	SNB	BHJ	7/95
0	ISSUED FOR APPROVAL	SW	5/95	WM	SNB	BHJ	7/95
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

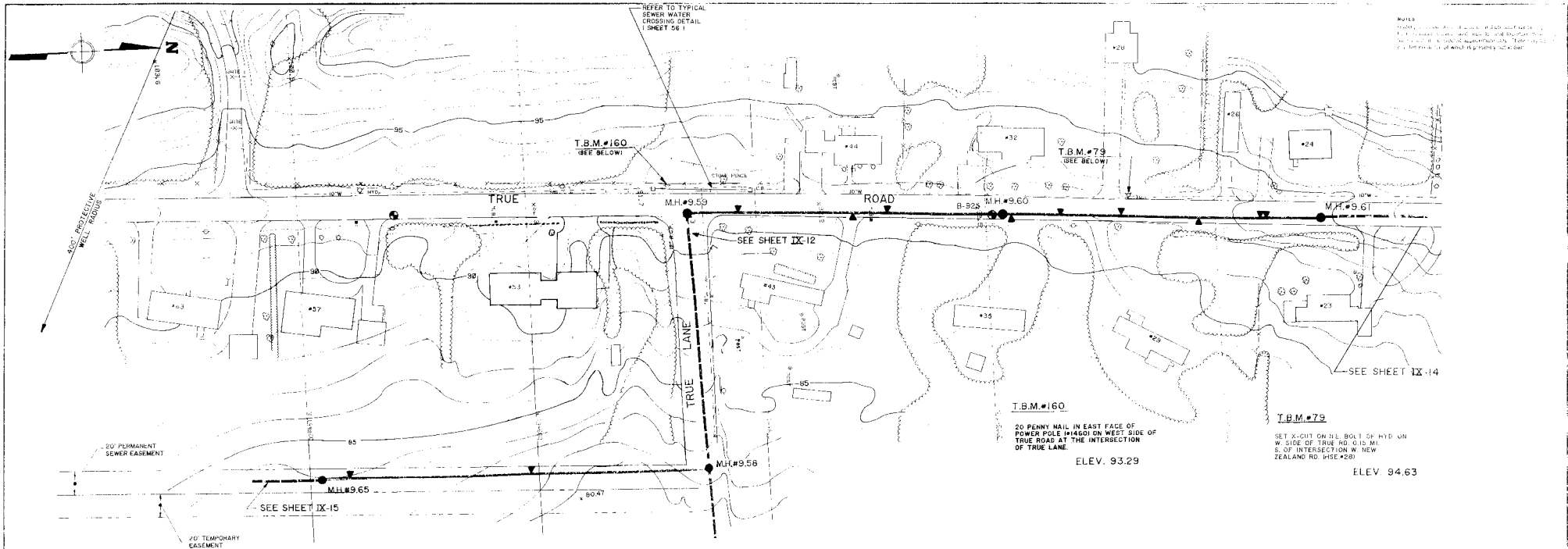
PROJECT SUPERVISOR — APPROVED

THE STATE OF NEW HAMPSHIRE — BRADFORD JONES NO. 331 — PROFESSIONAL ENGINEER

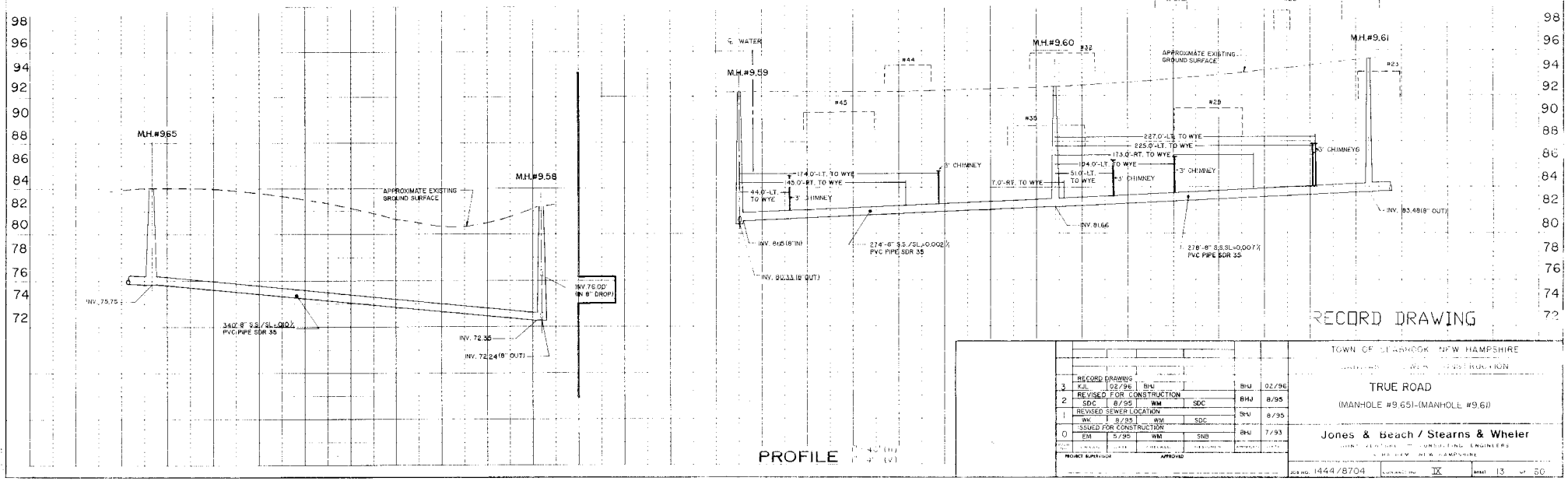
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
TRUE LANE
(MANHOLE #9.53)-(MANHOLE #9.59)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 12 OF 60



PLAN 1"=40'



PROFILE 1"=40' (H) 4' (V)

RECORD DRAWING

3	RECORD DRAWING	KJL	02/96	BHJ		BHJ	02/96
2	REVISED FOR CONSTRUCTION	SDC	8/95	WM	SDC	BHJ	8/95
1	REVISED SEWER LOCATION	WK	8/95	WM	SDC	BHJ	8/95
0	ISSUED FOR CONSTRUCTION	EM	5/95	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, N.H. NEW HAMPSHIRE

WATER & SEWER CONSTRUCTION

TRUE ROAD

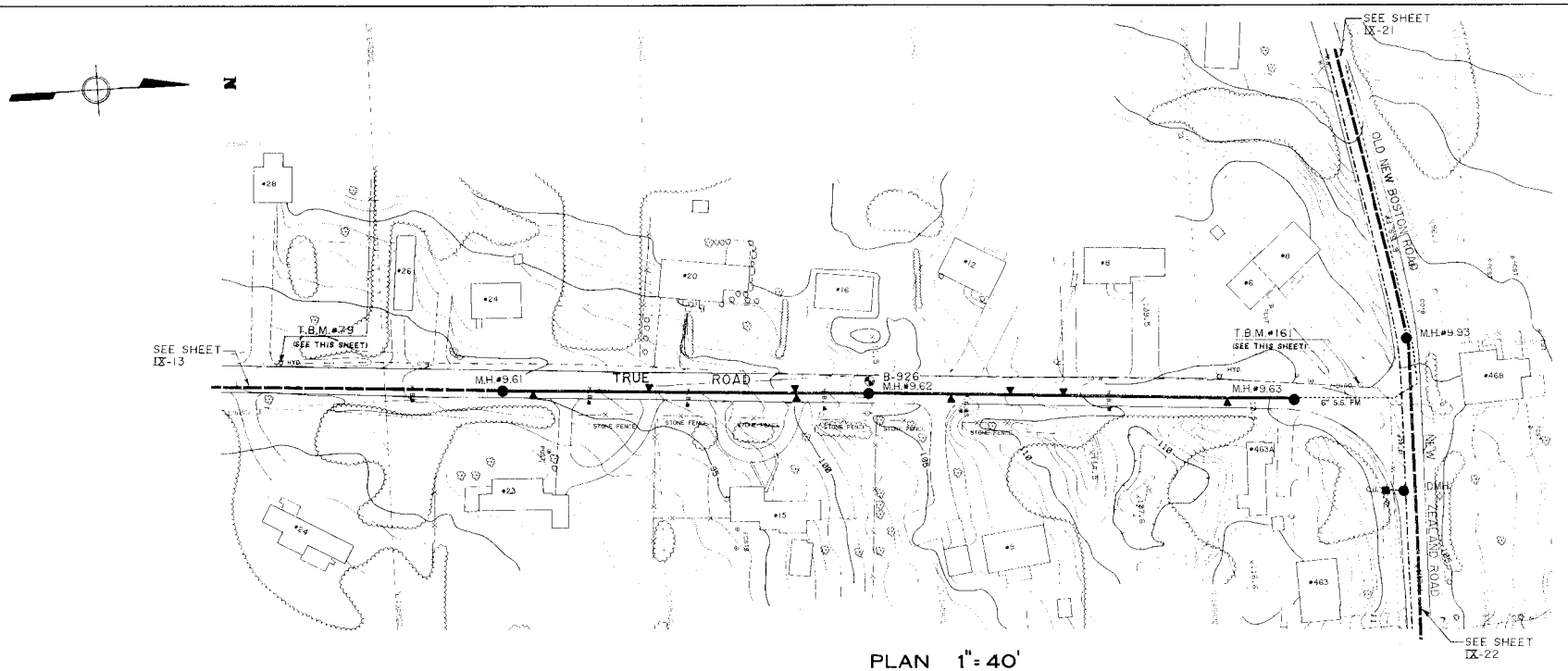
(MANHOLE #9.65)-(MANHOLE #9.61)

Jones & Beach / Stearns & Wheler

CIVIL ENGINEERS — CONSULTING ENGINEERS

GREENLAND, N.H. NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 13 OF 50



PLAN 1" = 40'

NOTE:
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T.B.M.#161

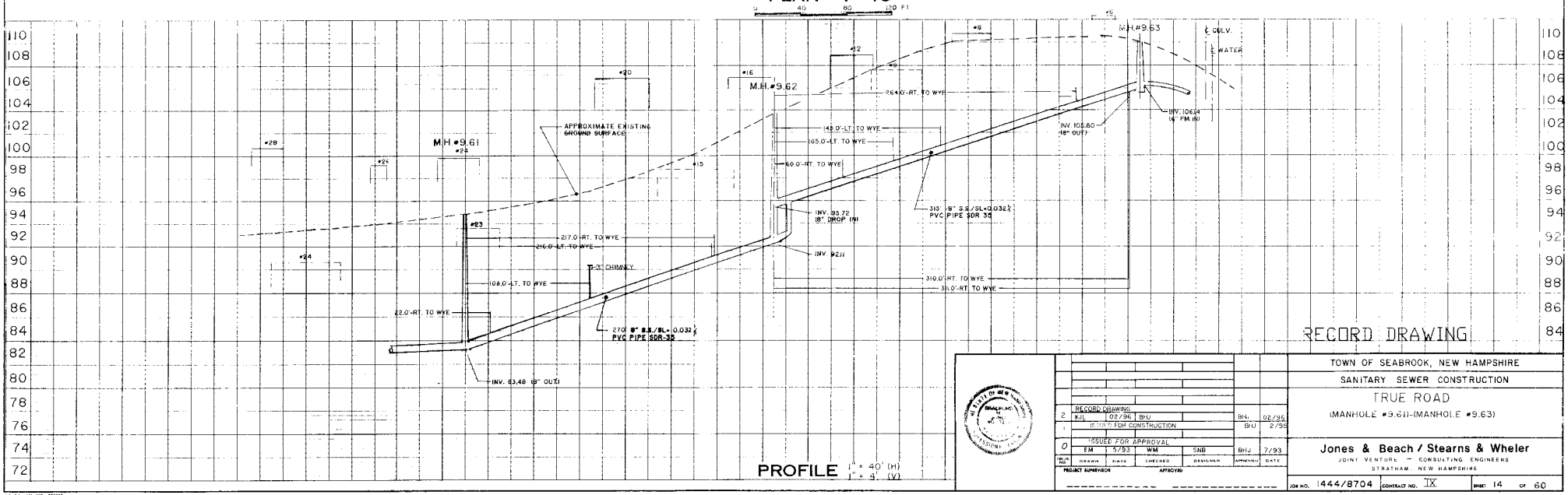
20 PENNY NAIL IN NORTHEAST FACE OF POWER POLE AT THE SOUTH-WEST CORNER OF TRUE ROAD AND NEW ZEALAND ROAD INTERSECTION.

ELEV. 111.10

T.B.M.#79

SET X-CUT ON N.E. BOLT OF HYD. ON W. SIDE OF TRUE RD. APPROX. 0.15 MI. S. OF ITS INTERSECTION W. NEW ZEALAND RD. (USE #281

ELEV. 94.63



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

2	RECORD DRAWING	KJL	02/96	BHJ		BHJ	02/96
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	EM	5/93	WM	SNB	BHJ	7/93
MARK NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

TRUE ROAD

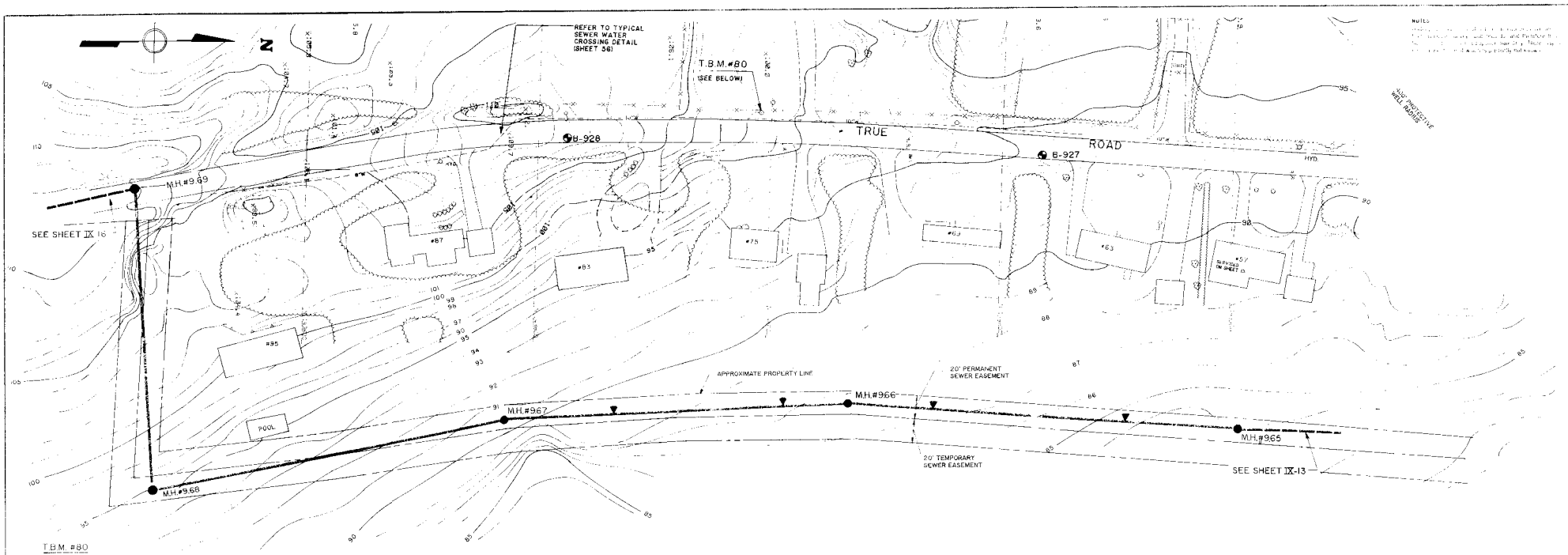
(MANHOLE #9.61)-(MANHOLE #9.63)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

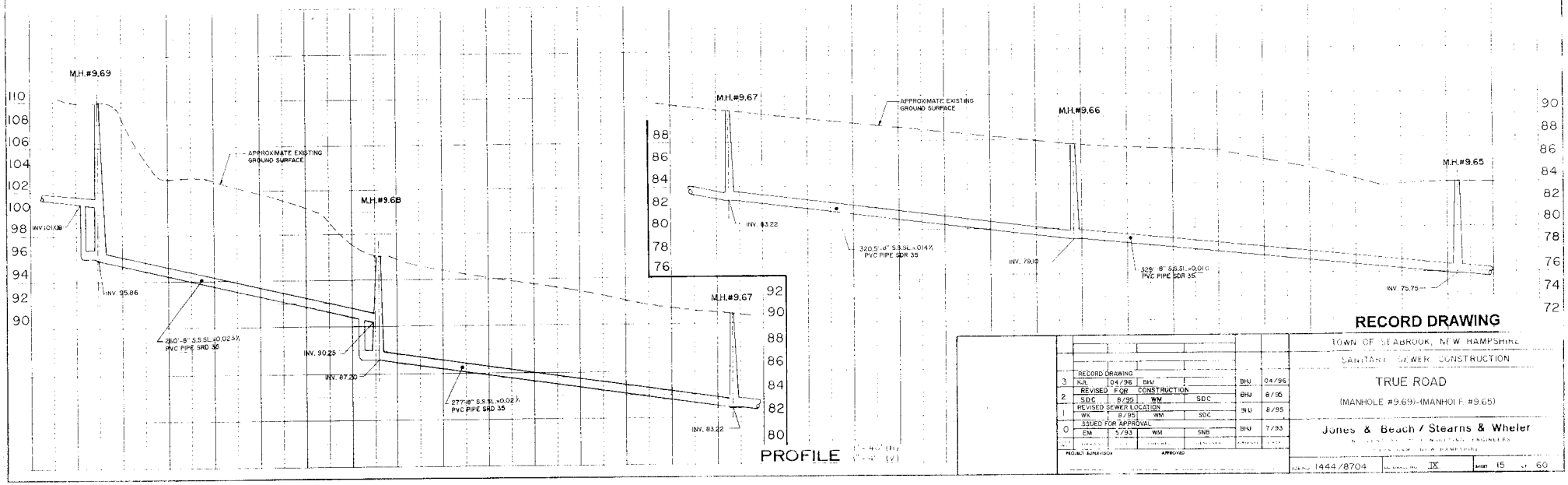
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 14 OF 60



T.B.M. #80
60 PENNY NAIL IN E. FACE OF POWER POLE
1140.885 N.E.T. & T. CO. BI ON W. SIDE TRUE RD.
APPROX. .35 MILES SOUTH OF INTERSECT.
OF NEW ZEALAND RD. & TRUE RD.
OPPOSITE HSE. NO. 75.

PLAN 1" = 40'



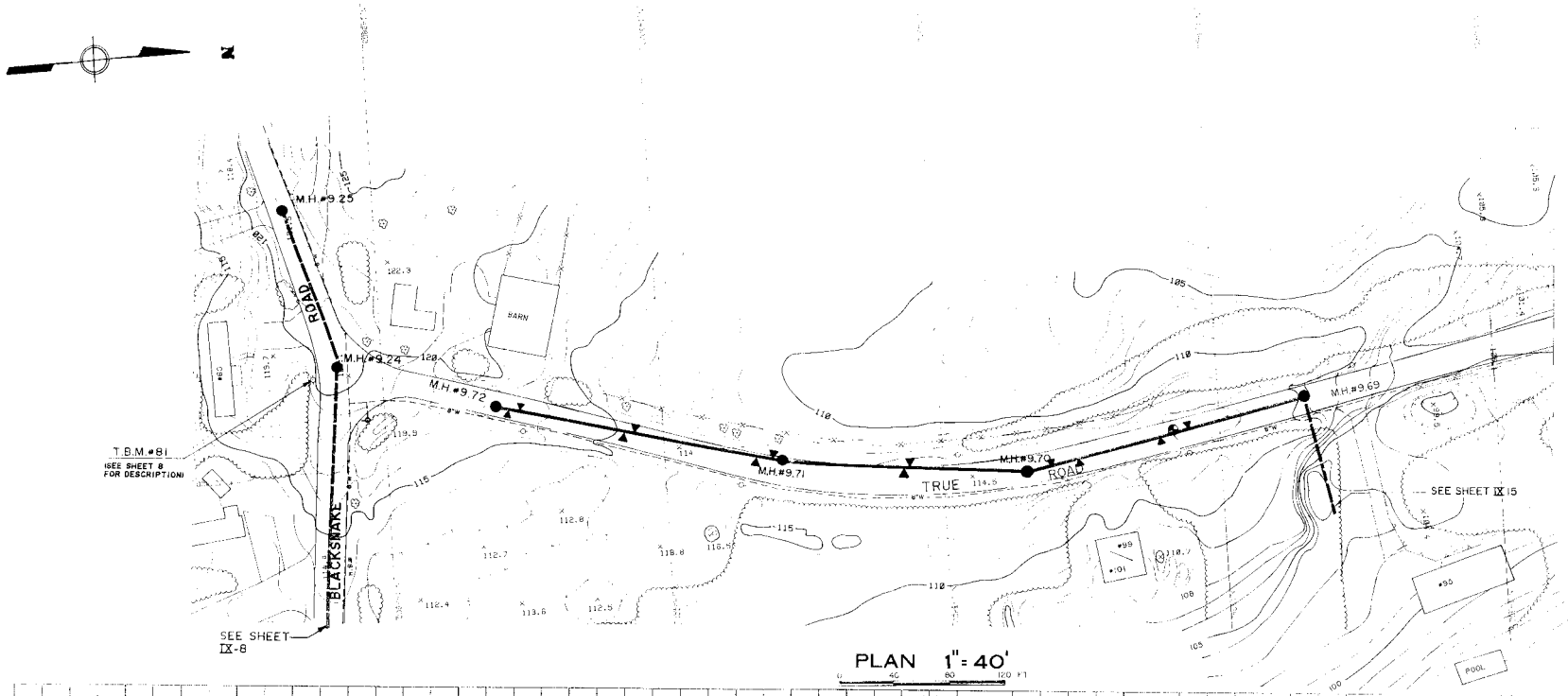
PROFILE

RECORD DRAWING

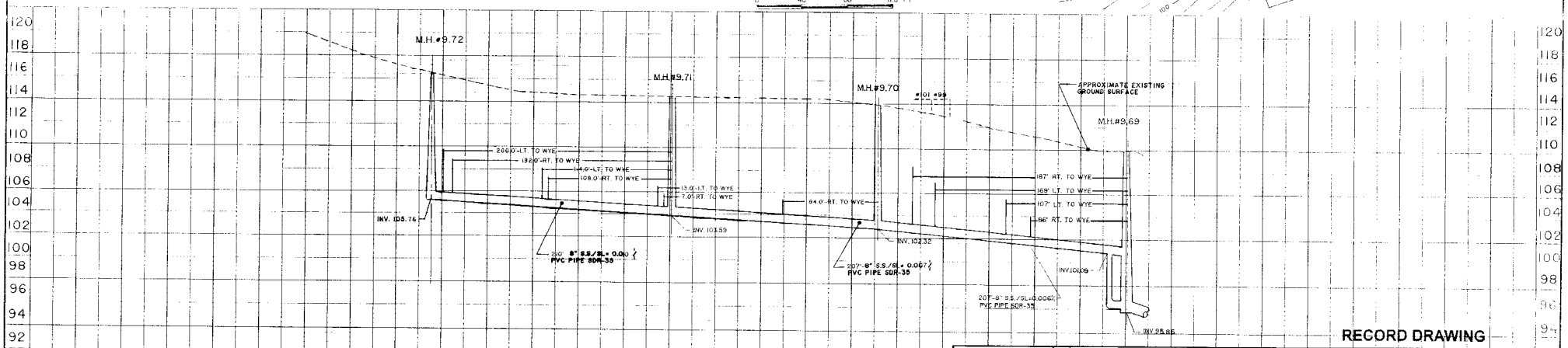
3	RECORD DRAWING					BHJ	04/96
	KJL	04/96	BHJ				
2	REVISED FOR CONSTRUCTION					BHJ	8/95
	SDC	8/95	WM	SDC			
1	REVISED SEWER LOCATION					BHJ	8/95
	WK	8/95	WM	SDC			
0	ISSUED FOR APPROVAL					BHJ	7/93
	EM	5/93	WM	SNB			
NO.	DRAWN		CHECKED			APPROVED	DATE

PROJECT SUPERVISOR

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
TRUE ROAD
(MANHOLE #9.69)-(MANHOLE #9.65)
Jones & Beach / Stearns & Wheler
ENGINEERS
JOB NO. 1444/8704 | DRAWING NO. IX | SHEET 15 OF 60



PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

NOTE:
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RECORD DRAWING

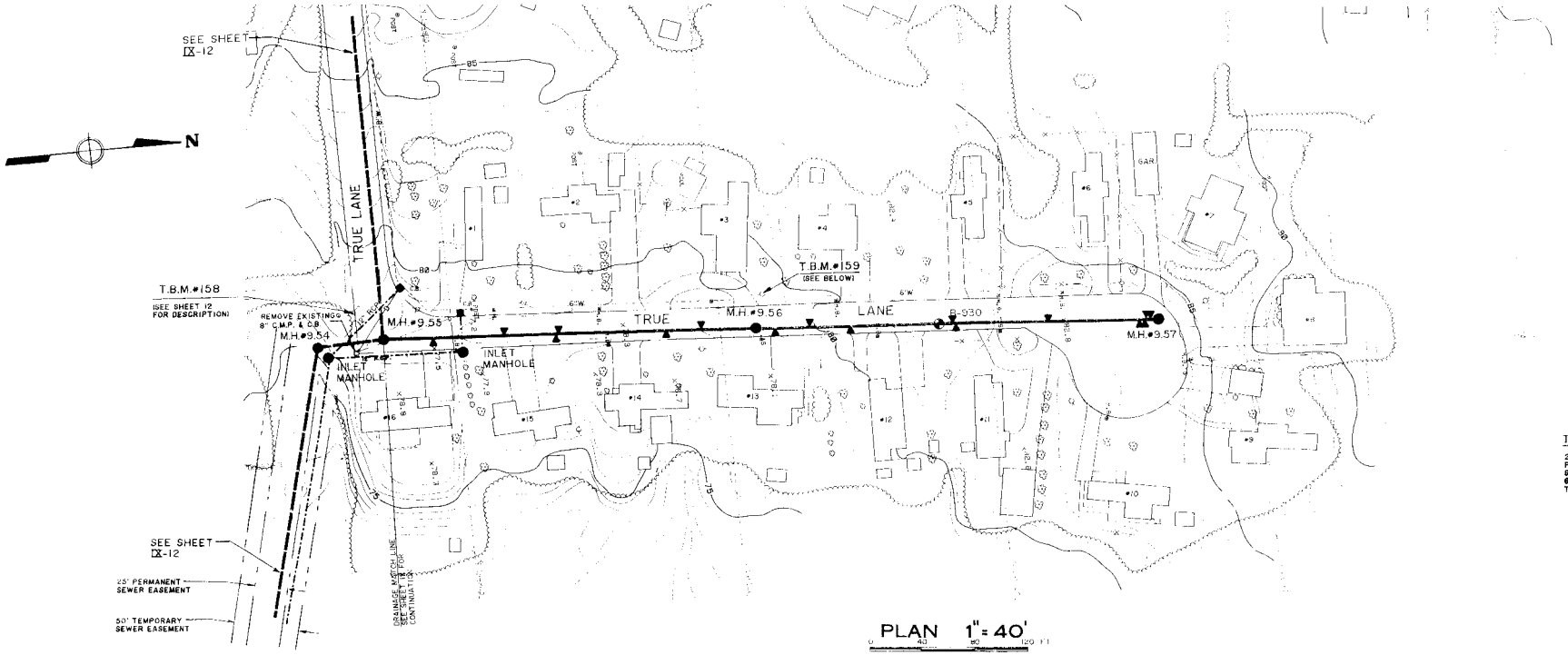
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
3	RECORD DRAWING KJL	04/96	BHJ		BHJ	04/96
2	REVISED FOR CONSTRUCTION SDC	8/95	WM	SDC	BHJ	8/95
1	REVISED SEWER LOCATION WK	8/95	WM	SDC	BHJ	8/95
0	ISSUED FOR APPROVAL CM	5/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
TRUE ROAD
(MANHOLE #9.72)-(MANHOLE #9.69)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 16 OF 60



PLAN 1" = 40'

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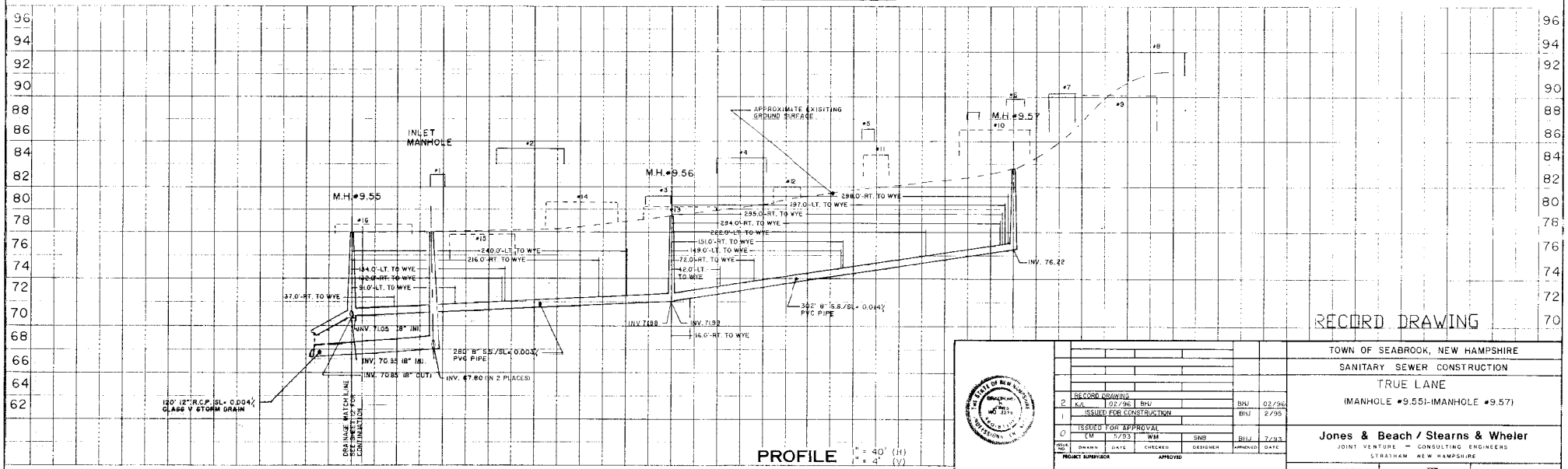
T.B.M.#159

20 PENNY NAIL IN EAST FACE OF POWER POLE (#14641 ON WEST SIDE OF TRUE LANE ABOUT 640 FEET FROM ITS INTERSECTION WITH TRUE ROAD.

ELEV. 80.57



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

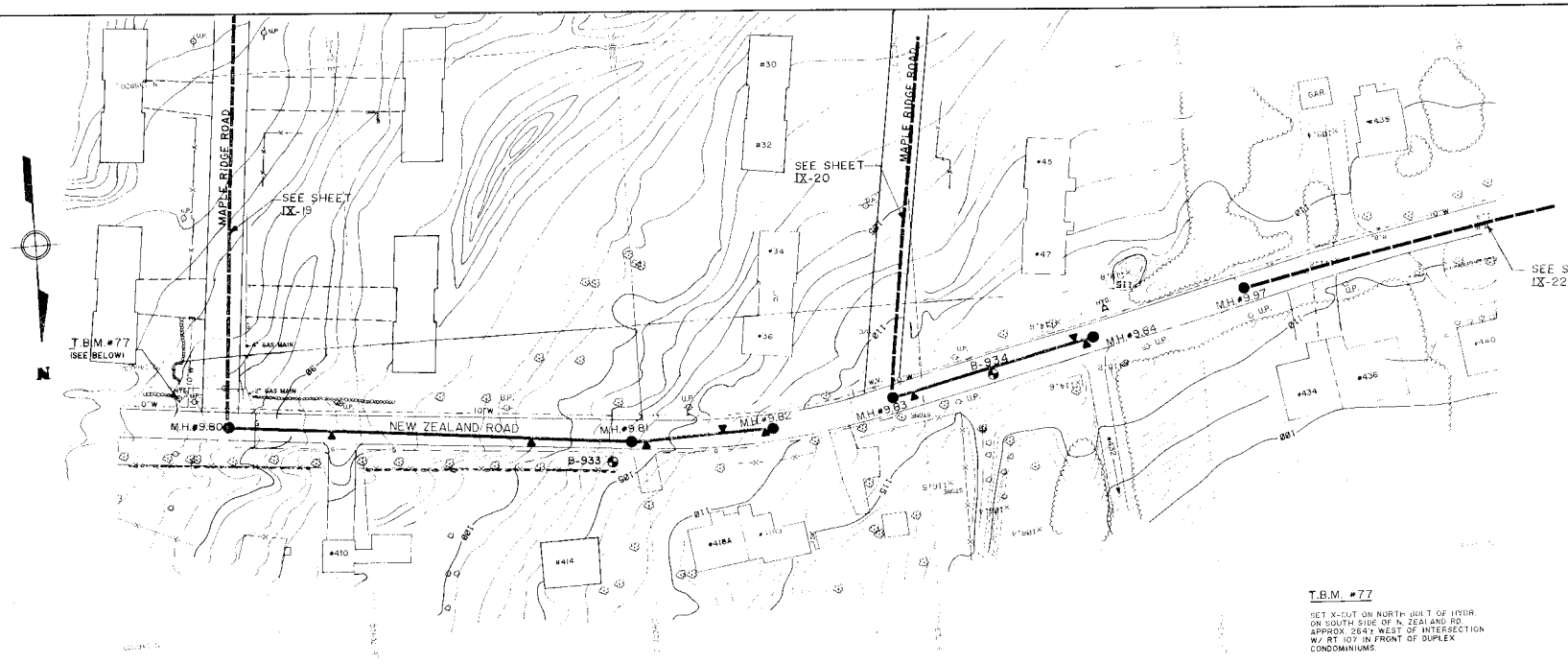
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING K.L. 02/96 BHJ				BHJ	02/96
1	ISSUED FOR CONSTRUCTION				BHJ	2/95
0	ISSUED FOR APPROVAL EM	5/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR ---------- APPROVED ----------

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
TRUE LANE
(MANHOLE #9.55)-(MANHOLE #9.57)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 17 OF 60



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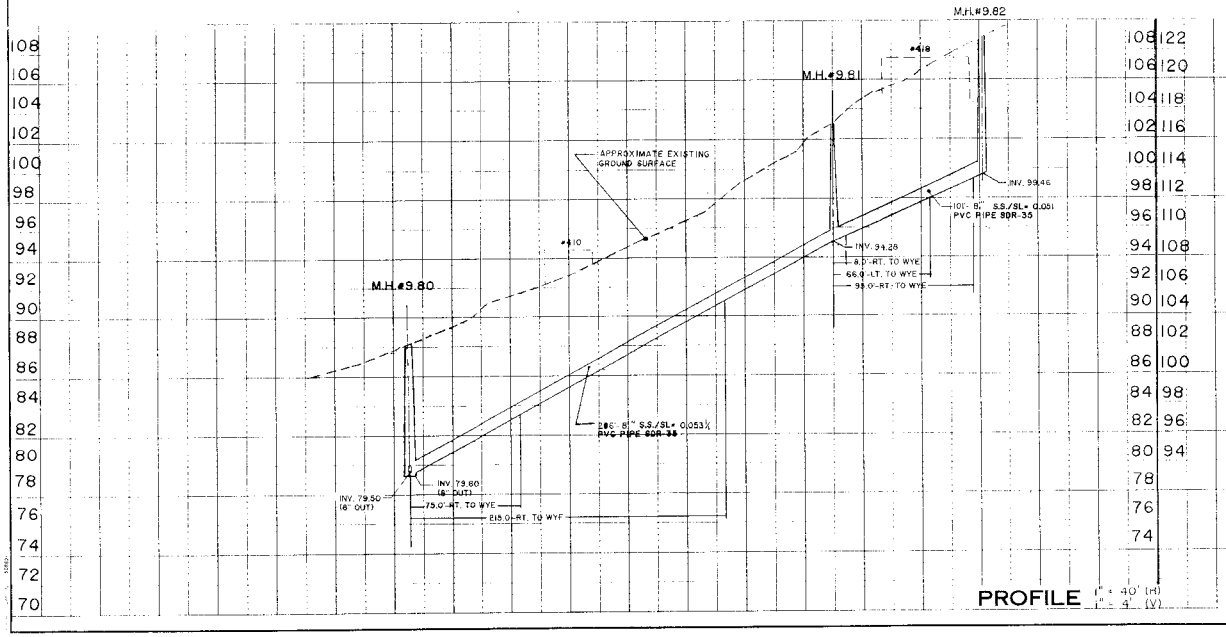
T.B.M. #77

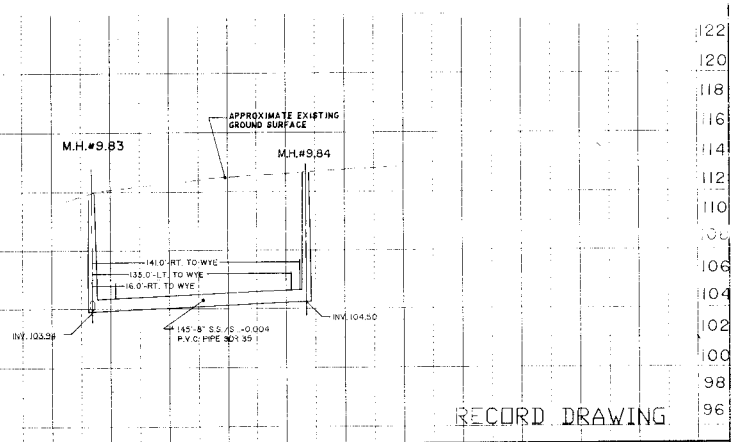
SET X-CUT ON NORTH BOLT OF HYDR. ON SOUTH SIDE OF N. ZEALAND RD. APPROX. 264'± WEST OF INTERSECTION W/ RT 107 IN FRONT OF DUPLEX CONDOMINIUMS.

ELEV. 88.47

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)



RECORD DRAWING

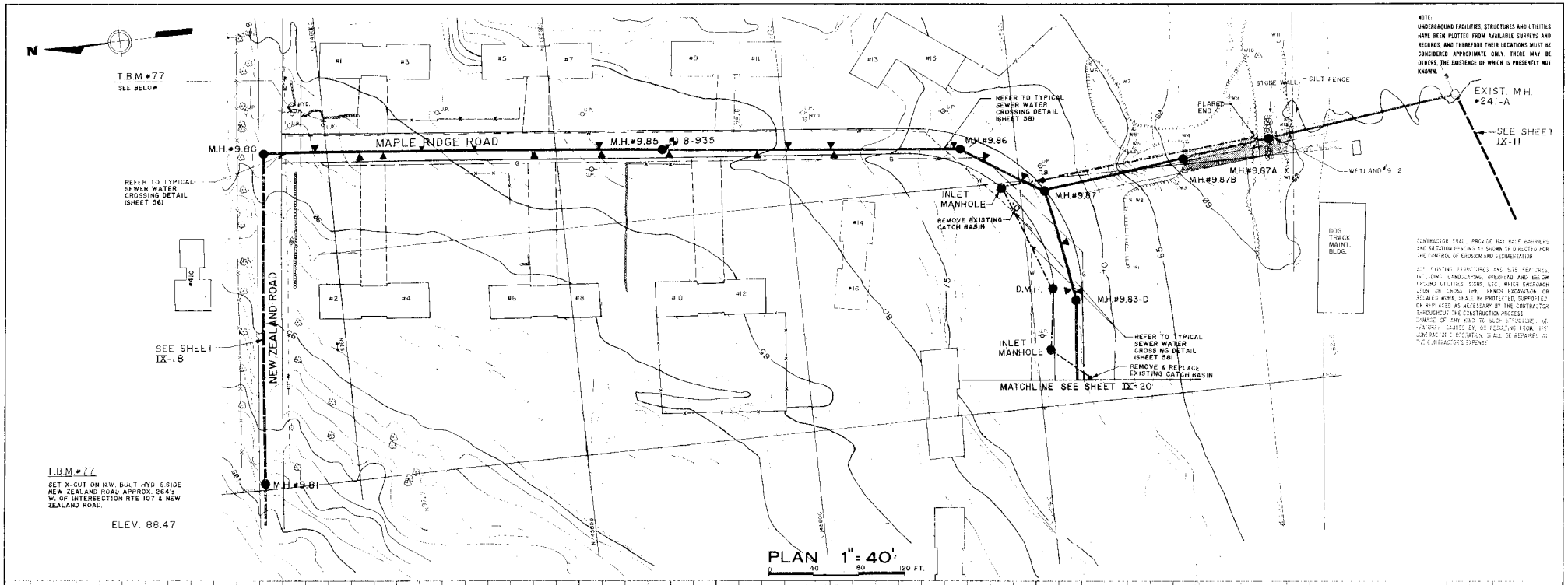
NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	KAL	02/96	BHJ		BHJ	02/96
2	REVISE PROFILE & WATER LINE	WK	8/95	JEC	BHJ	BHJ	8/95
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	EM	5/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
NEW ZEALAND ROAD
(MANHOLE #9.80)-(MANHOLE #9.82)
(MANHOLE #9.83)-(MANHOLE #9.84)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 18 OF 60


N
T.B.M.#77
SEE BELOW
MAPLE RIDGE ROAD
M.H.#9.80
M.H.#9.85
8-935
M.H.#9.86
M.H.#9.87
M.H.#9.87A
M.H.#9.87B
M.H.#9.81
NEW ZEALAND ROAD
REFER TO TYPICAL SEWER WATER CROSSING DETAIL (SHEET 56)
INLET MANHOLE
REMOVE EXISTING CATCH BASIN
D.M.H.
M.H.#9.83-D
REFER TO TYPICAL SEWER WATER CROSSING DETAIL (SHEET 58)
REMOVE & REPLACE EXISTING CATCH BASIN
FLARED END
STONE WALL
SILT FENCE
EXIST. M.H. #241-A
SEE SHEET IX-11
WETLAND 9-2
DOG TRACK MAINT. BLDG.
SEE SHEET IX-18
MATCHLINE SEE SHEET IX-20
T.B.M.#77
SET X-CUT ON N.W. BOLT HYD. S SIDE NEW ZEALAND ROAD APPROX. 264'± W. OF INTERSECTION RTE 107 & NEW ZEALAND ROAD.
ELEV. 88.47
NOTE:
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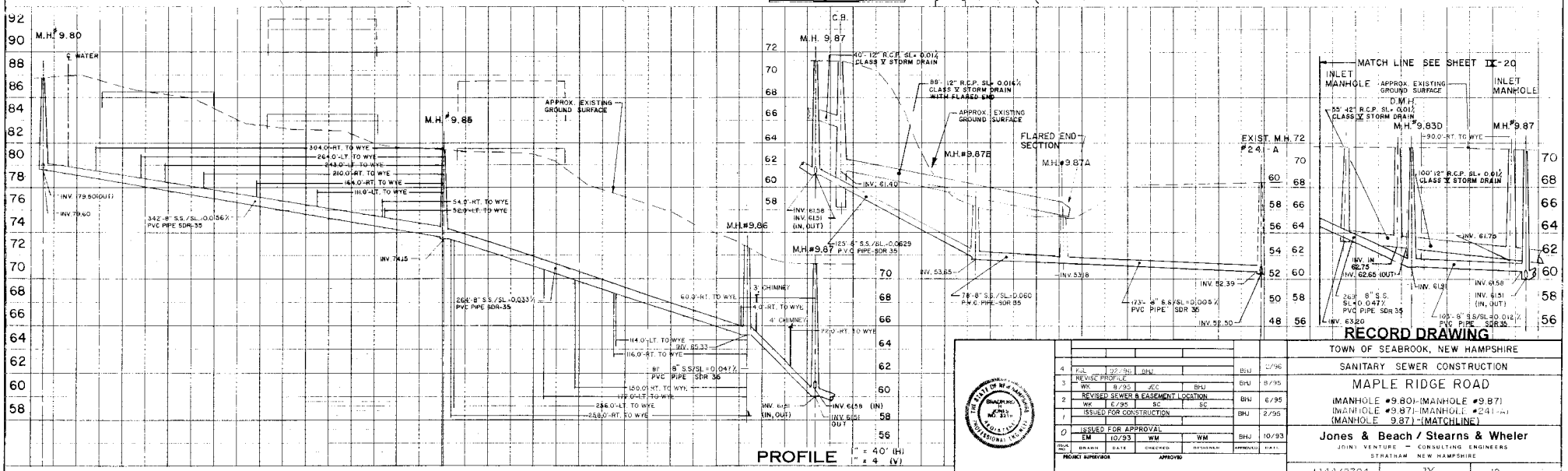
PLAN 1" = 40'
0 40 80 120 FT.



4	FOR APPROVAL	EM	10/93	WM	BHJ	10/93
3	REVISE PROFILE	WK	8/95	JCC	BHJ	8/95
2	REVISED SEWER & EASEMENT LOCATION	WK	6/95	SC	BHJ	6/95
1	ISSUED FOR CONSTRUCTION			SC	BHJ	2/95
0	ISSUED FOR APPROVAL				BHJ	10/93
DELTA NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

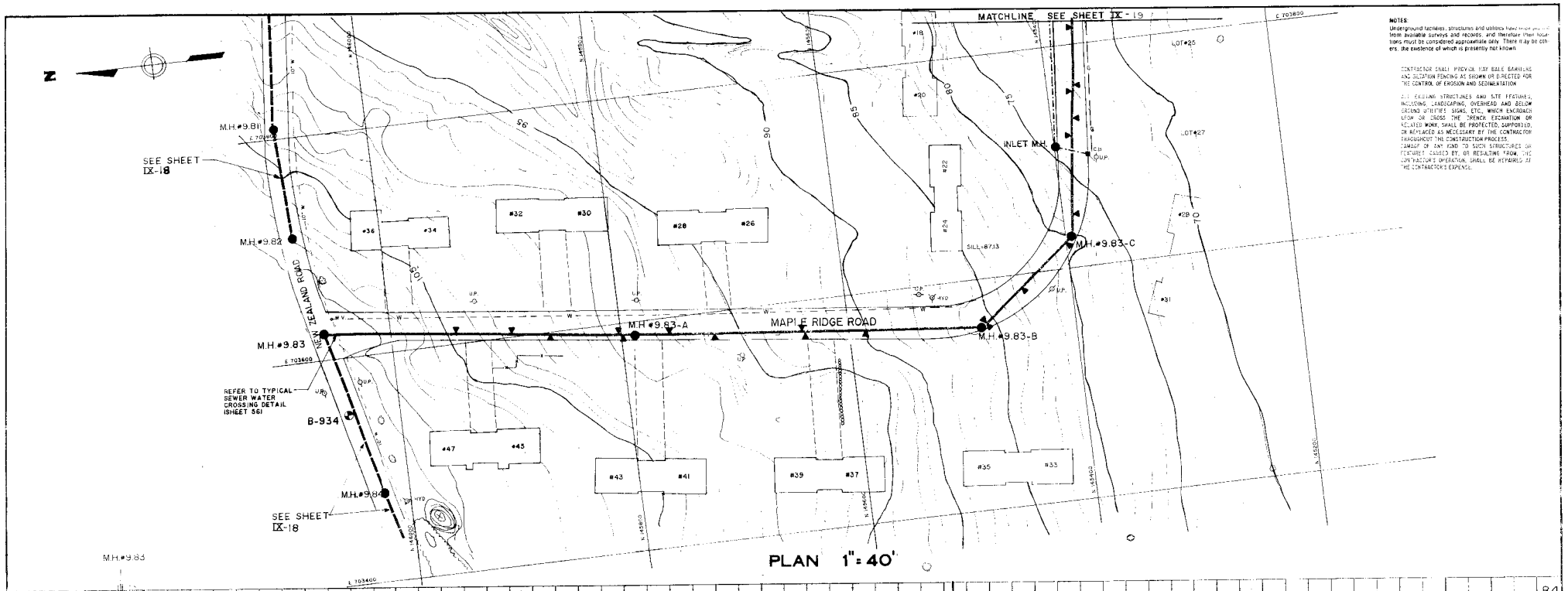
SANITARY SEWER CONSTRUCTION

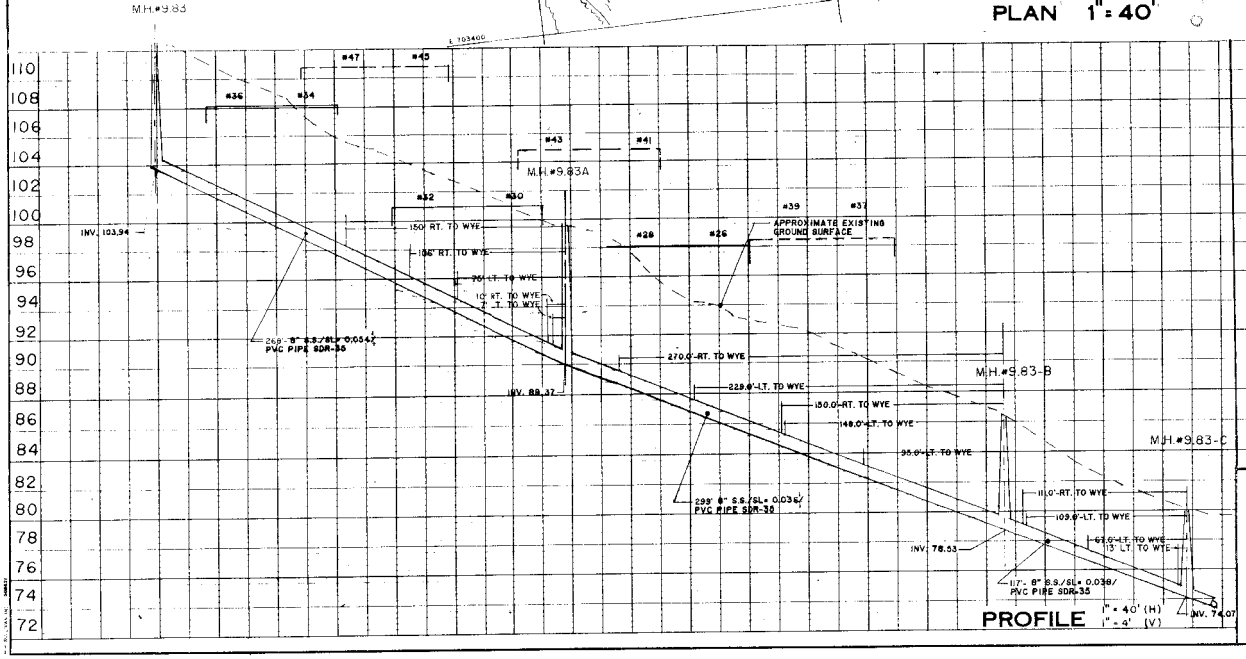
MAPLE RIDGE ROAD

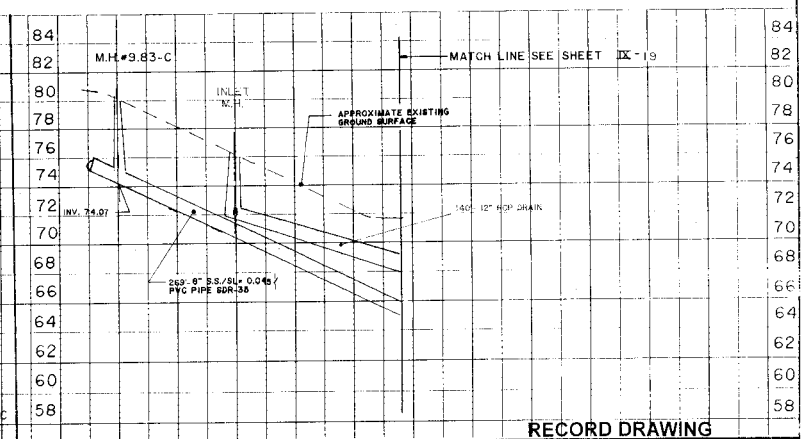
(MANHOLE #9.80)-(MANHOLE #9.87)
(MANHOLE #9.87)-(MANHOLE #241-A)
(MANHOLE 9.87)-(MATCHLINE)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 19







NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.

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RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

MAPLE RIDGE ROAD

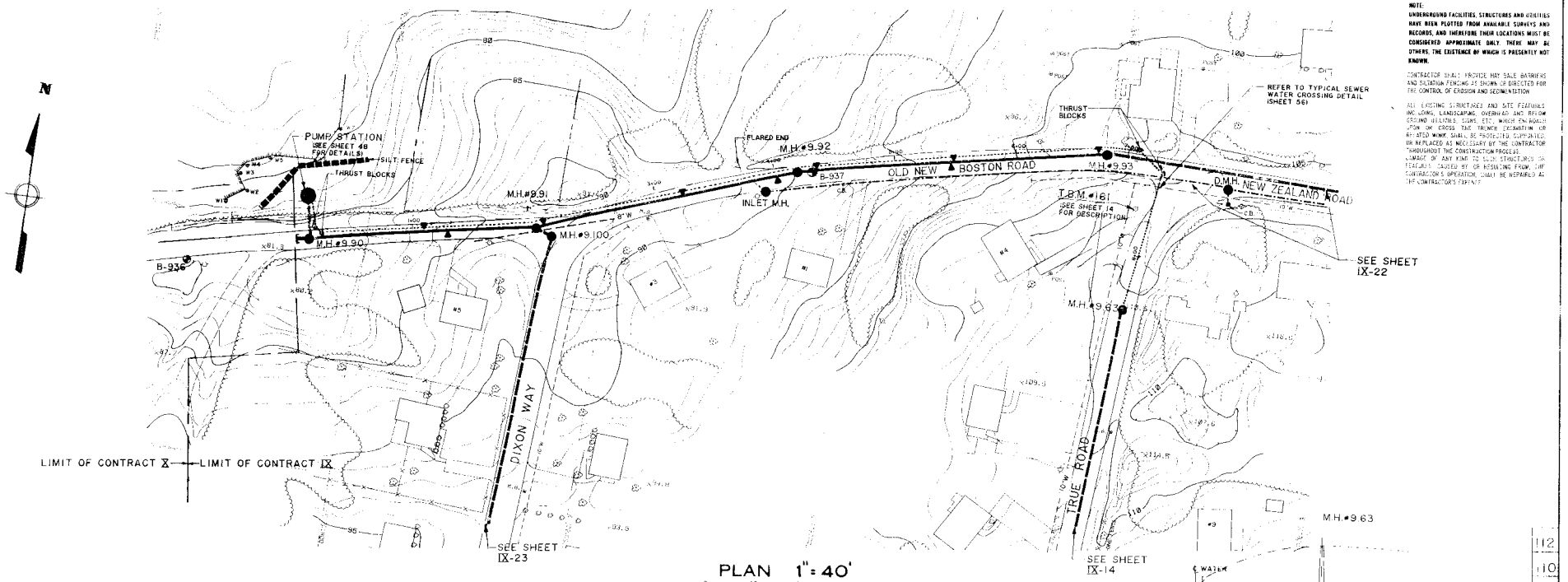
(MANHOLE #9.83-(MANHOLE #9.83C)
(MANHOLE #9.83C)-(MATCH LINE)

2	RECORD DRAWING				BHJ	02/96
1	KJL	02/96	BHJ		BHJ	8/95
	REVISE PROFILE AND WATER LINE & HOUSE #					
	WK	6/95	JEC	BHJ		
0	ISSUED FOR APPROVAL				BHJ	10/93
	EM	10/93	WM	WM		
	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler
JOINT VENTURE ~ CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 20 OF 60



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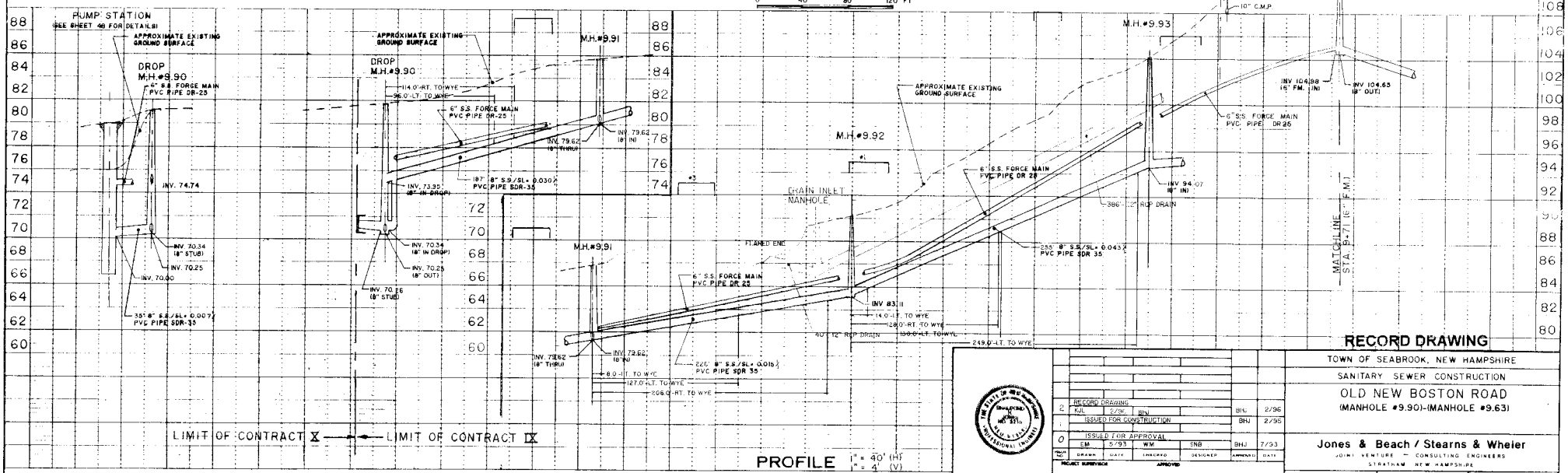
PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

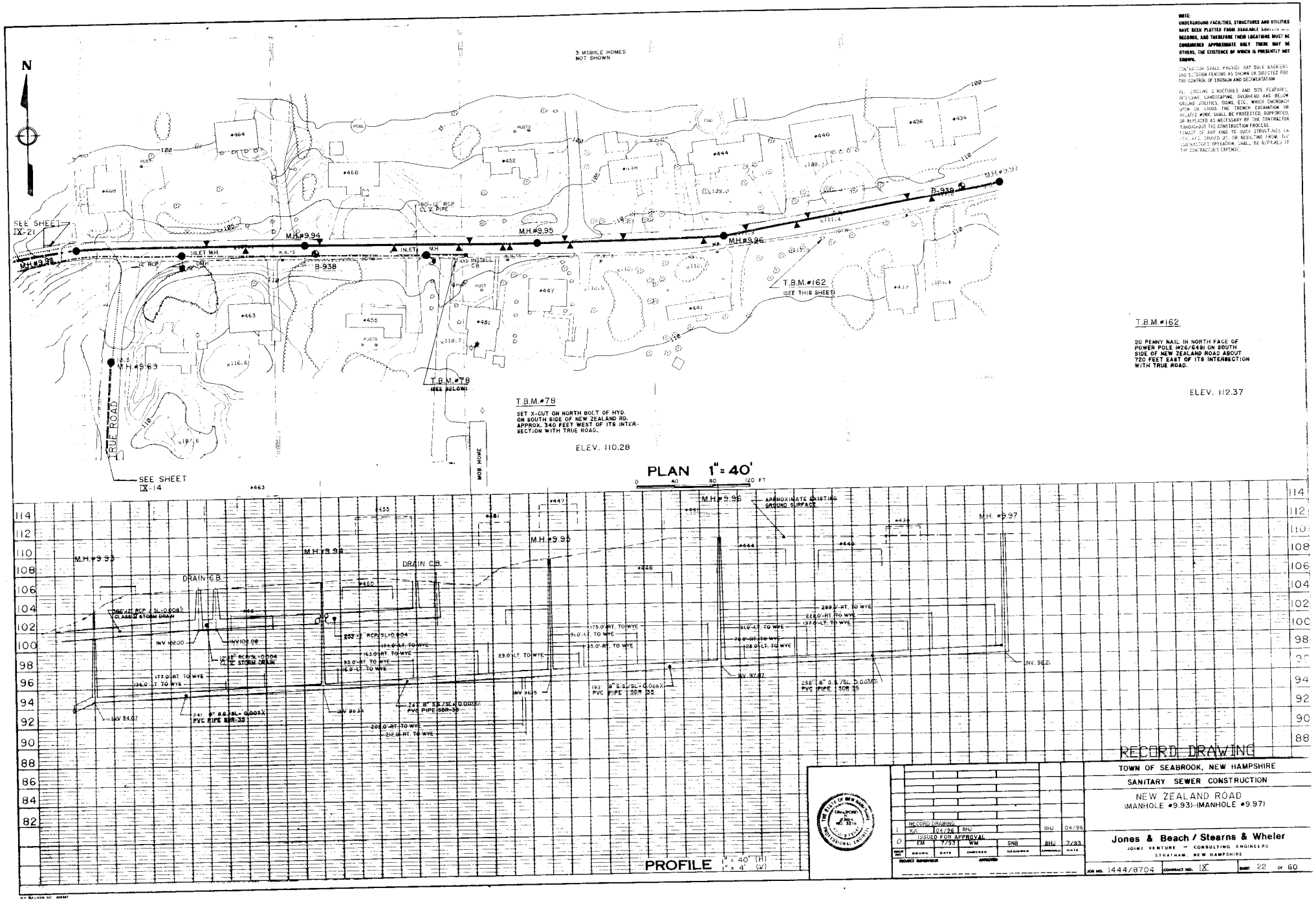
TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
OLD NEW BOSTON ROAD
(MANHOLE #9.90)-(MANHOLE #9.63)

2	RECORD DRAWING	KJL	2/96	BHJ	2/96
1	ISSUED FOR CONSTRUCTION	WW	5/93	BHJ	7/93
0	ISSUED FOR APPROVAL	EM	5/93	WW	SNB	BHJ	7/93
		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SURVEYOR APPROVED

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 21 OF 60



RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

NEW ZEALAND ROAD

(MANHOLE #9.93)-(MANHOLE #9.97)

1	RECORD DRAWING	KS	04/96	BHJ		BHJ	04/96
0	ISSUED FOR APPROVAL	EM	7/93	WM	SNB	BHJ	7/93
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 22 OF 60

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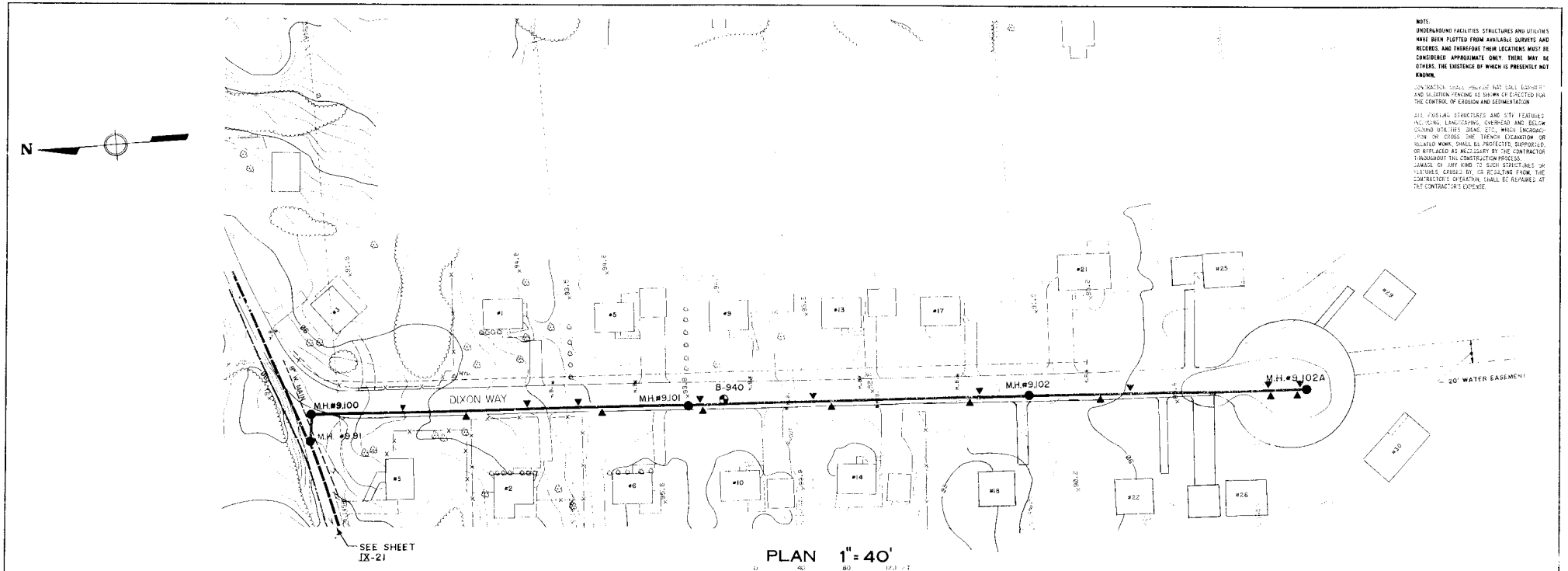
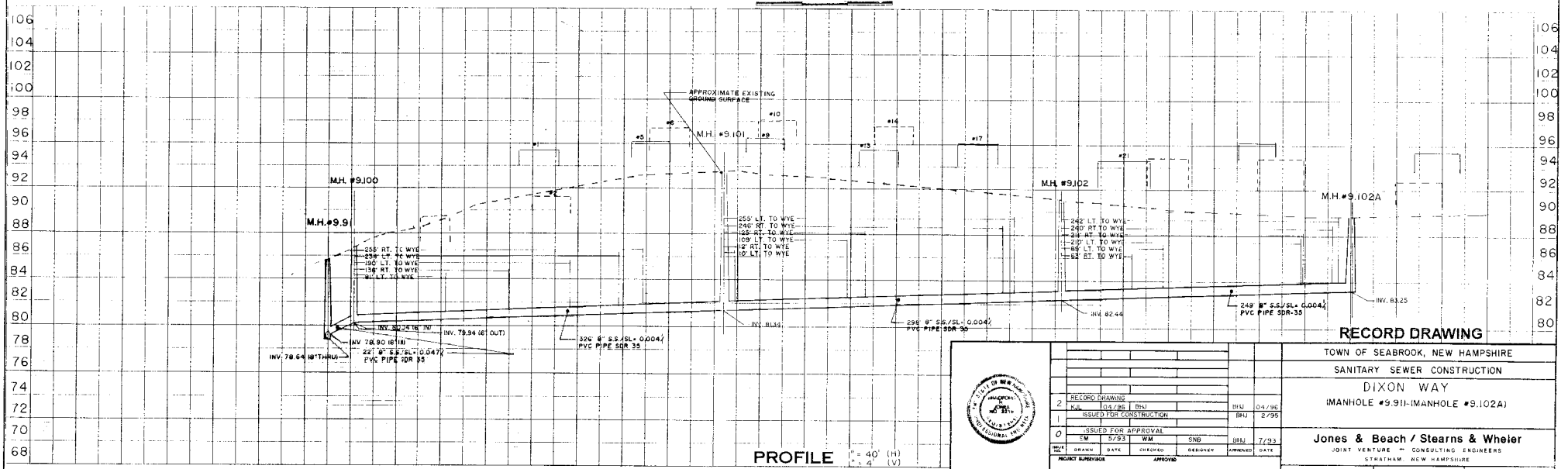


PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

2	RECORD DRAWING				BHJ	04/96
	KJL	04/96	BHJ			
1	ISSUED FOR CONSTRUCTION				BHJ	2/95
0	ISSUED FOR APPROVAL					
	EM	5/93	WM	SNB	BHJ	7/93
INIT./ NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

DIXON WAY

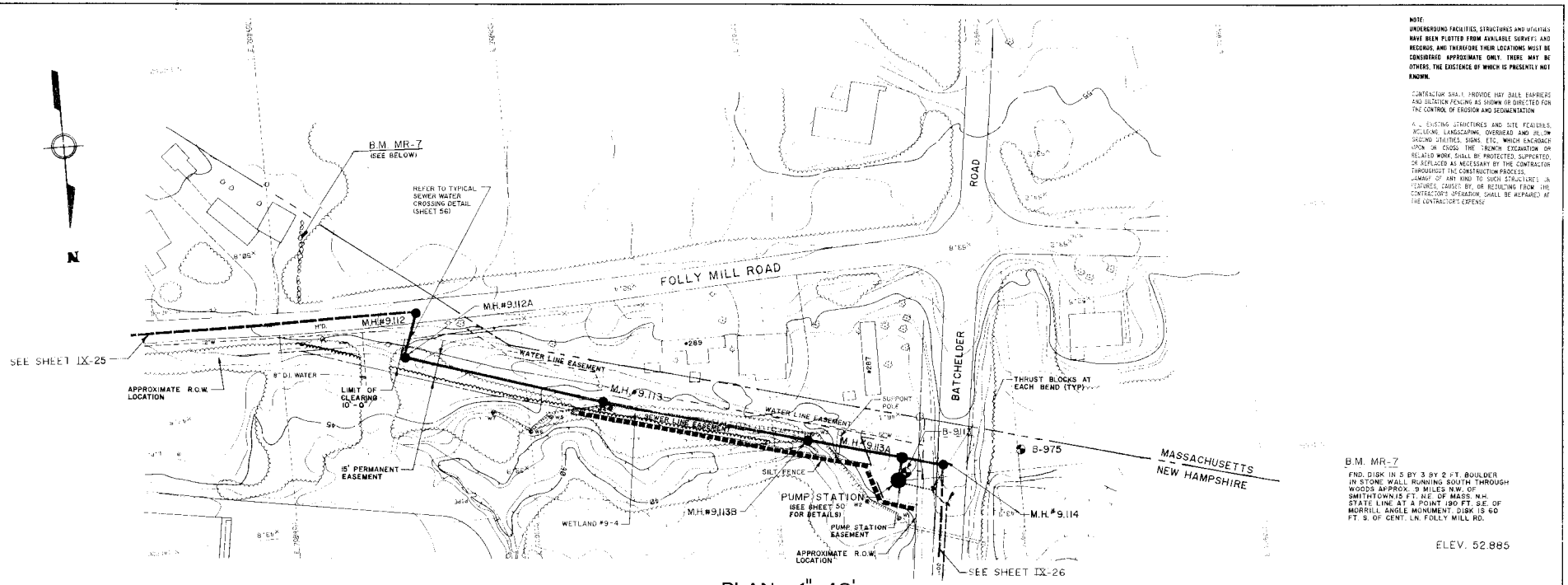
(MANHOLE #9.9)-(MANHOLE #9.102A)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 23 OF 60



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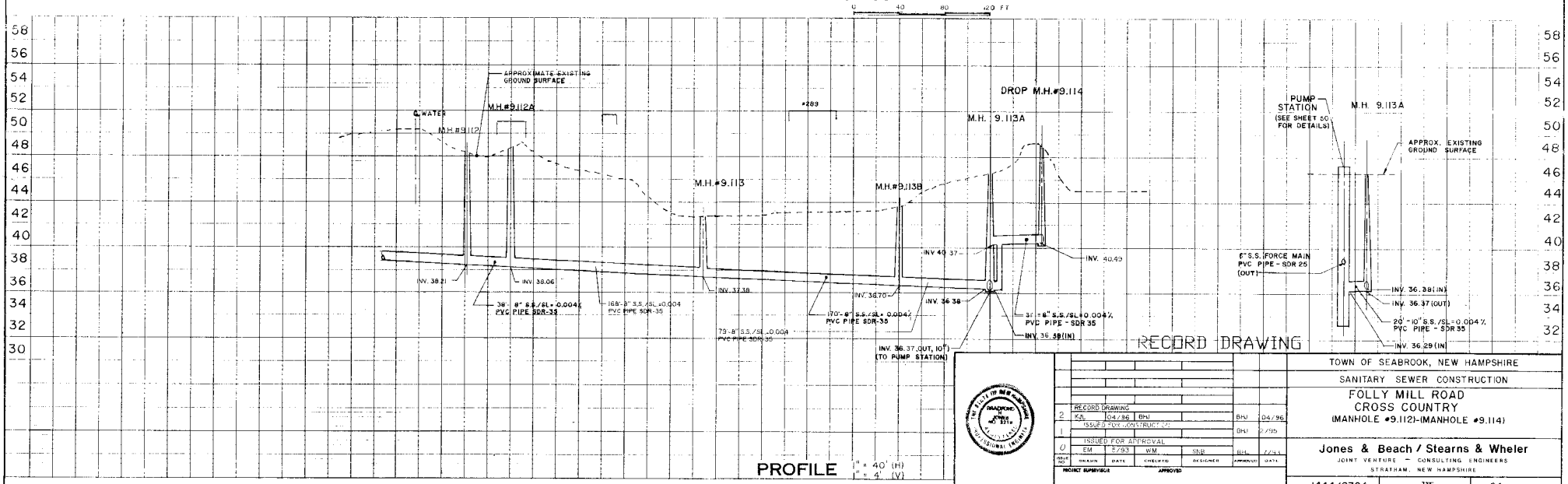
B.M. MR-7
FND. DISK IN 5 BY 3 BY 2 FT. BOULDER IN STONE WALL RUNNING SOUTH THROUGH WOODS APPROX. .9 MILES N.W. OF SMITHTOWN 15 FT. N.E. OF MASS. N.H. STATE LINE AT A POINT 190 FT. S.E. OF MORRILL ANGLE MONUMENT. DISK IS 60 FT. S. OF CENT. LN. FOLLY MILL RD.

ELEV. 52.885

PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	KJL	04/96	BHJ		BHJ	04/96
	RECORD DRAWING					
1					BHJ	2/95
	ISSUED FOR CONSTRUCTION					
0	EM	5/93	WM	SNB	BHJ	7/93
	ISSUED FOR APPROVAL					

PROJECT SUPERVISOR APPROVED

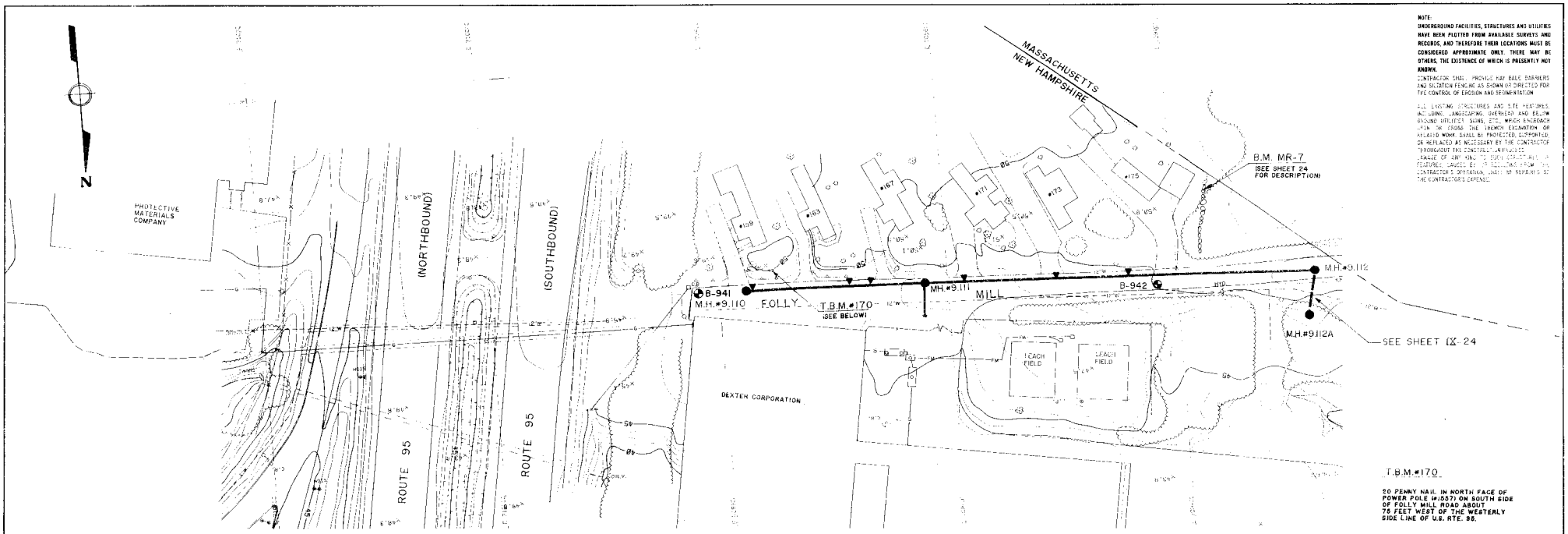
TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOLLY MILL ROAD
CROSS COUNTRY
(MANHOLE #9.112)-(MANHOLE #9.114)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 24 OF 60



NOTE:
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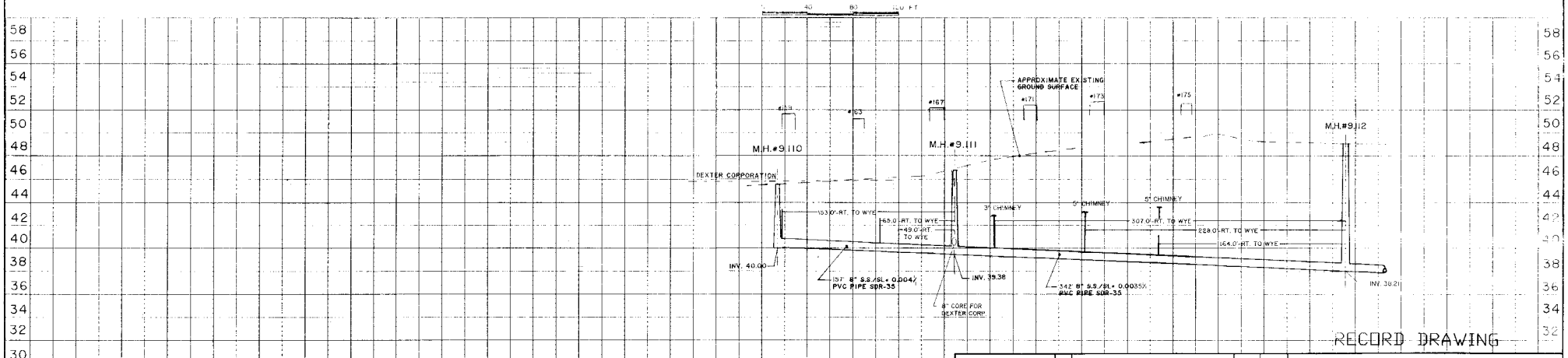
CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PERIOD.

DAMAGE OF ANY KIND TO EXISTING STRUCTURES OR FEATURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	FJL	12/96	BJU		BJU	04/96
	ISSUED FOR APPROVAL					
0	EM	5/93	WM	SNB	BJU	7/93

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
FOLLY MILL ROAD
(MANHOLE #9.110)-(MANHOLE #9.112)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 25 OF 60

NOTE:
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N

PLAN 1"= 40'

M.H.#9.114
M.H.#9.115
M.H.#9.116
M.H.#9.117
B-944
B-945
BATCHELDER ROAD
N.H. STONE STATE MARKER
SUPPORT POLE
PUMP STATION
(SEE SHEET 50 FOR DETAILS)
36" R.C.P. PIPE TO BE RELAYED IF REQUIRED
INV. = 42.50
INV. = 42.29
6" SERVICE CONNECTION (TYP.)
6" STUB
T.B.M.#68
(SEE BELOW)
ROW MACHINE CO.
PERKO INC.
C&D VALVE & INSTRUMENT CO.
DIESEL EQUIP.
SEE SHEET IX-24
SEE SHEET IX-27

T.B.M.#68

60 PENNY NAIL IN WEST FACE POWER POLE (NO. 180) NET&T CO. 24) ON EAST SIDE BATCHELDER ROAD APPROXIMATELY .80 MILES SOUTH FROM INTERSECTION ROUTE 107 & BATCHELDER ROAD.

ELEV. 57.74

PROFILE 1" = 40' (H) 1" = 4' (V)

F.M. STA. 0+50
M.H.#9.114
M.H.#9.115
M.H.#9.116
M.H.#9.117
APPROXIMATE EXISTING GROUND SURFACE
36" R.C.P.
204.0'-LT. TO WYE
6" S.S. FORCE MAIN PVC PIPE DR-25
113.0'-LT. TO WYE
INV. 40.49
INV. 42.91
290' 8" S.S./SL=0.009% PVC PIPE SDR-35
6" STUB INV. 45.75
106.0'-RT. TO WYE
158.0'-LT. TO WYE
212.0'-LT. TO WYE
240.0'-RT. TO WYE
260.0'-LT. TO WYE
INV. 42.44
INV. 49.92
300' 8" SS/SL=0.015 PVC PIPE SDR-35
MATCH LINE STA. 4+ F.M. 8+90

RECORD DRAWING

3	RECORD DRAWING	KA 04/96	BHJ	BHJ	04/96
2	ISSUED FOR CONSTRUCTION			BHJ	7/95
1	GENERAL REVISION	SDC 8/93	WM	BHJ	8/93
0	ISSUED FOR APPROVAL	FM 6/93	WM	STB	BHJ 7/93
ISSUE NO.		DRAWN DATE	CHECKED	DESIGNER	APPROVED DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BATCHELDER ROAD
(MANHOLE #9.114)-(MANHOLE #9.117)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 26 OF 60

NOTE:
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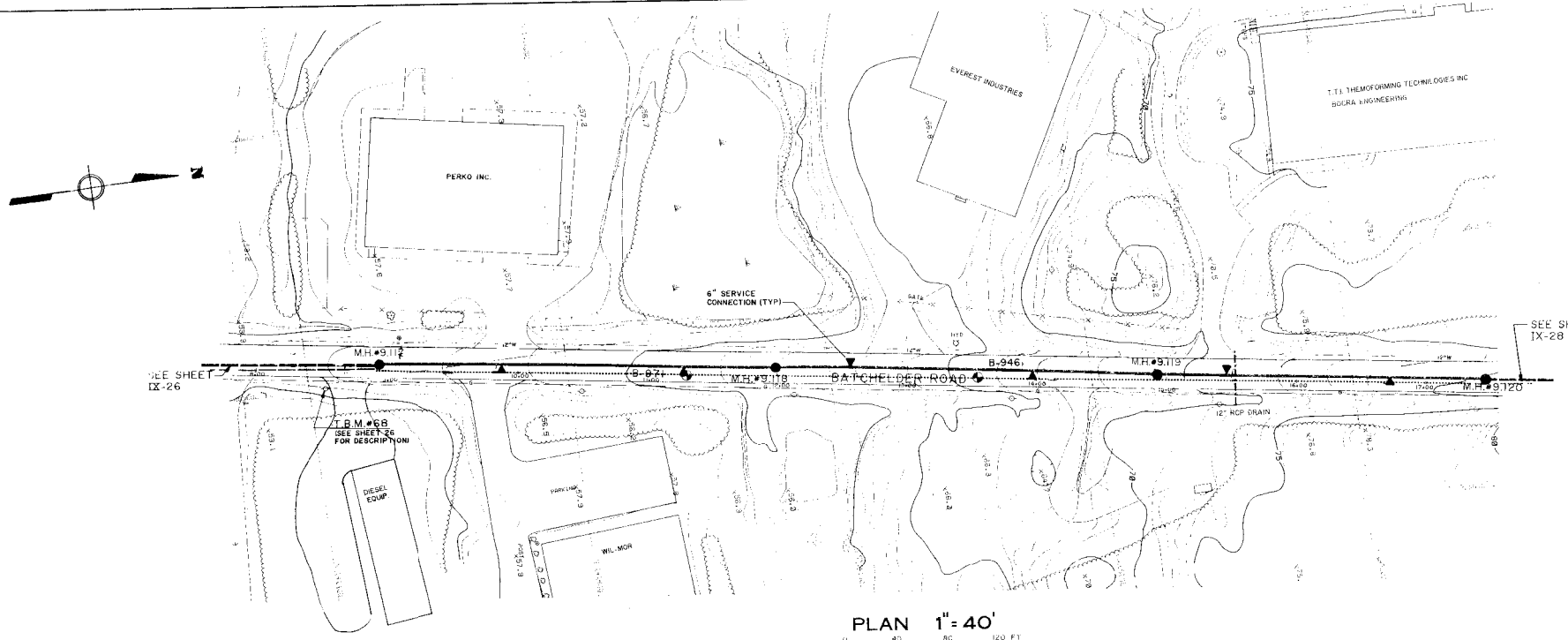
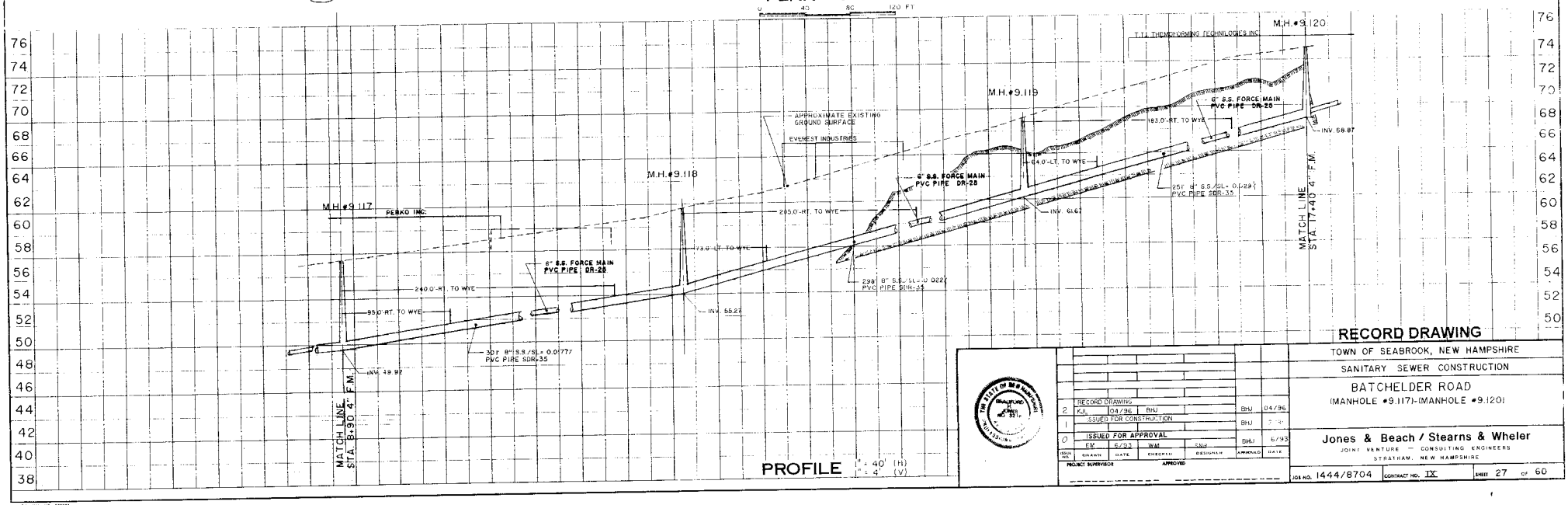


PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	KJL	04/96	BHJ		BHJ	04/96
	RECORD DRAWING					
1					BHJ	7-91
	ISSUED FOR CONSTRUCTION					
0	ISSUED FOR APPROVAL				BHJ	6/91
	EM	6/91	WM	SNS		

PROJECT SUPERVISOR APPROVED

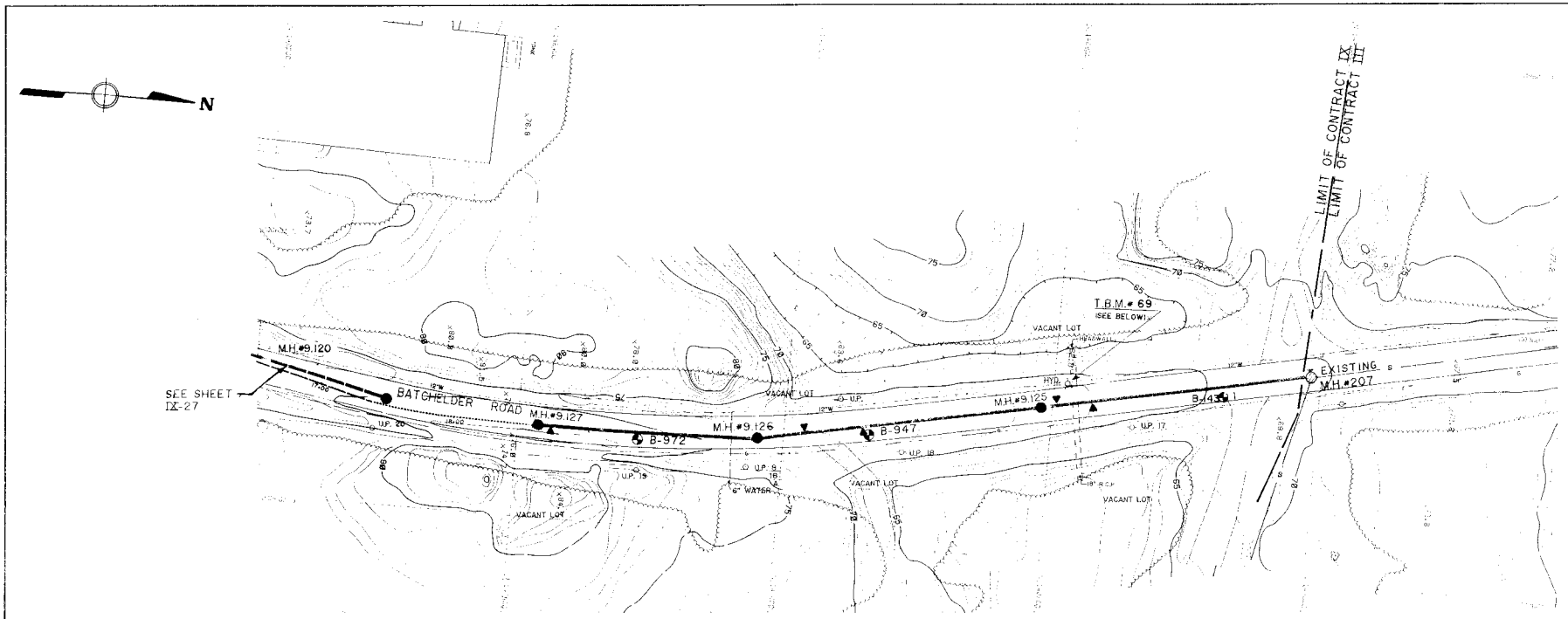
TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BATCHELDER ROAD
(MANHOLE #9.117)-(MANHOLE #9.120)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 27 OF 60



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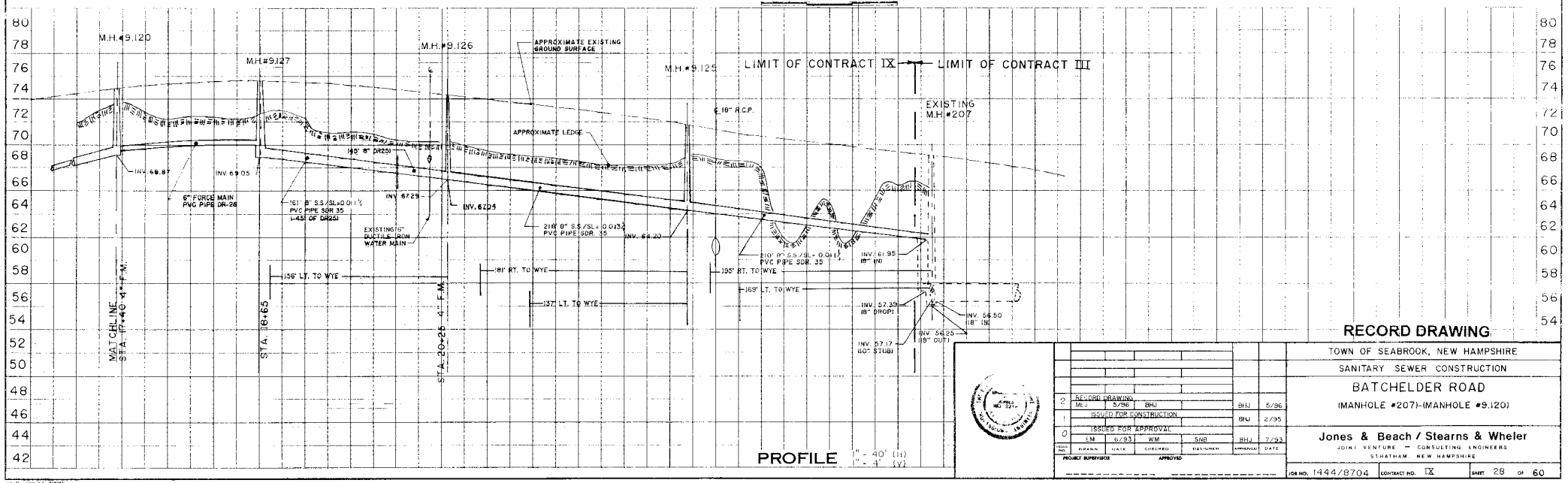
T.B.M.# 69

SET X-CUT ON E. BOLT DARLING HYD. ON W. SIDE BATCHELDER RD. APPROX. .55 MILES S. FROM INTERSECTION OF RTE. 107 & BATCHELDER RD. OPPOSITE UTILITY POLE (NO. 16/1793)

ELEV. 72.22

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

2	RECORD DRAWING	MEJ	5/96	BHJ		BHJ	5/96
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	EM	6/93	WM	SNB	BHJ	7/93
NO.		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BATCHELDER ROAD

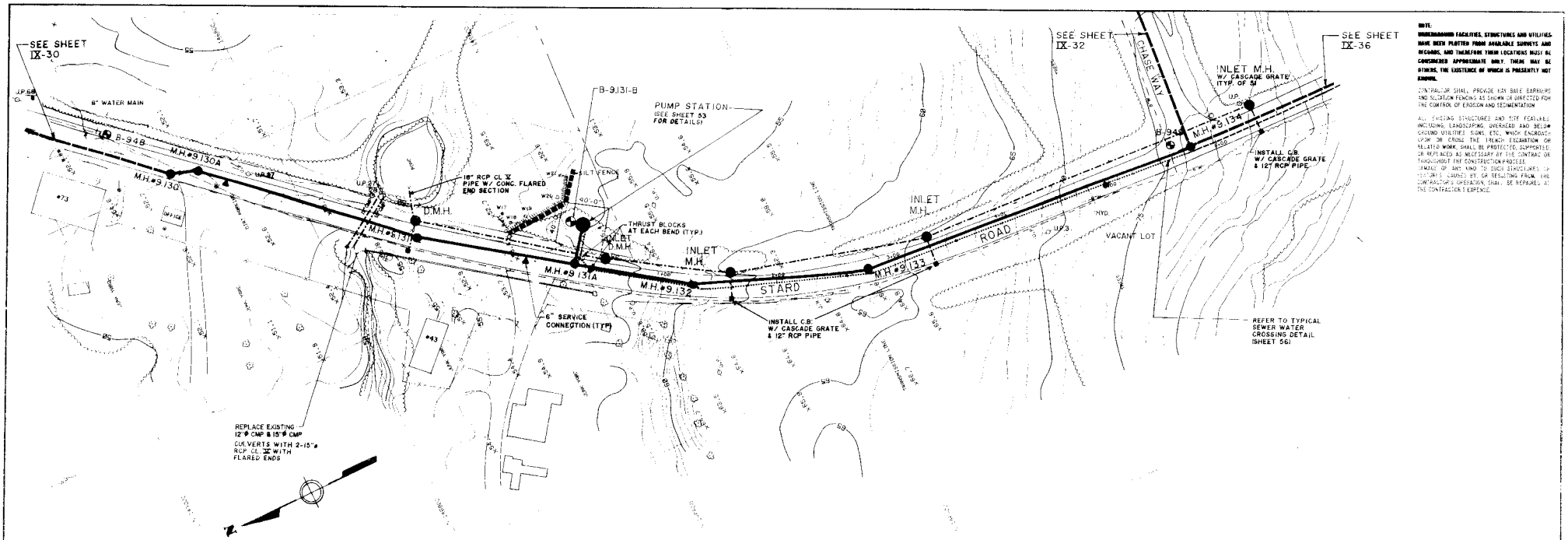
(MANHOLE #207)-(MANHOLE #9.120)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 28 OF 60


SEE SHEET IX-30
SEE SHEET IX-32
SEE SHEET IX-36
8" WATER MAIN
B-948
M.H.#9.130A
M.H.#9.130
M.H.#9.131
M.H.#9.131A
M.H.#9.132
M.H.#9.133
M.H.#9.134
B-9.131-B
PUMP STATION
(SEE SHEET 53 FOR DETAILS)
18" RCP CL V PIPE W/ CONC. FLARED END SECTION
SILT FENCE
THRUST BLOCKS AT EACH BEND (TYP.)
D.M.H.
INLET M.H.
6" SERVICE CONNECTION (TYP.)
INSTALL C.B. W/ CASCADE GRATE & 12" RCP PIPE
INLET M.H. W/ CASCADE GRATE (TYP. OF 5)
CHASE WAY
STARD ROAD
VACANT LOT
REFER TO TYPICAL SEWER WATER CROSSING DETAIL (SHEET 56)
REPLACE EXISTING 12"ø CMP & 15"ø CMP CULVERTS WITH 2-15"ø RCP CL IV WITH FLARED ENDS
NOTE:
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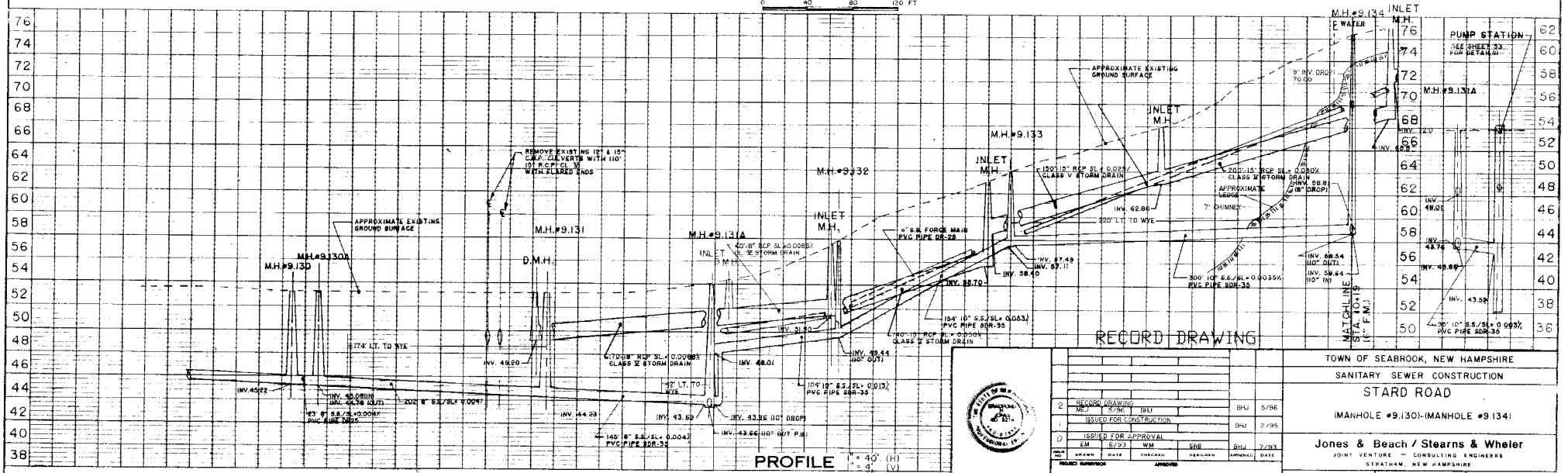
PLAN 1" = 40'

0 40 80 120 FT


M.H.#9.130A
M.H.#9.130
M.H.#9.131
M.H.#9.131A
M.H.#9.132
M.H.#9.133
M.H.#9.134
INLET M.H.
D.M.H.
REMOVE EXISTING 12" & 15" CMP CULVERTS WITH 110' 15" R.C.P. CL. V WITH FLARED ENDS
APPROXIMATE EXISTING GROUND SURFACE
40'-8" RCP SL=0.008% CL. V STORM DRAIN
170'-18" RCP SL=0.008% CLASS V STORM DRAIN
145' 18" S.S./SL=0.0042 PVC PIPE SDR-35
104' 10" S.S./SL=0.013% PVC PIPE SDR-35
154' 10" S.S./SL=0.053% PVC PIPE SDR-35
90'-15" RCP SL=0.033% CLASS V STORM DRAIN
130'-15" RCP SL=0.029% CLASS V STORM DRAIN
200'-15" RCP SL=0.080% CLASS V STORM DRAIN
6" S.S. FORCE MAIN PVC PIPE DR-26
300' 10" S.S./SL=0.0035% PVC PIPE SDR-35
9" INV. DROP
7' CHIMNEY
APPROXIMATE LEDGE
MATCH LINE STA. 10+15 (E.F.M.)
PUMP STATION (SEE SHEET 53 FOR DETAILS)
RECORD DRAWING

PROFILE 1" = 40' (H) 1" = 4' (V)

2	RECORD DRAWING	MEJ	5/96	BHJ	5/96
1	ISSUED FOR CONSTRUCTION			BHJ	2/95
0	ISSUED FOR APPROVAL	EM	6/93	WM	GNB	BHJ	7/93
		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

STARD ROAD

(MANHOLE #9.130)-(MANHOLE #9.134)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1944/8704 CONTRACT NO. IX SHEET 29 OF 60

NOTE:
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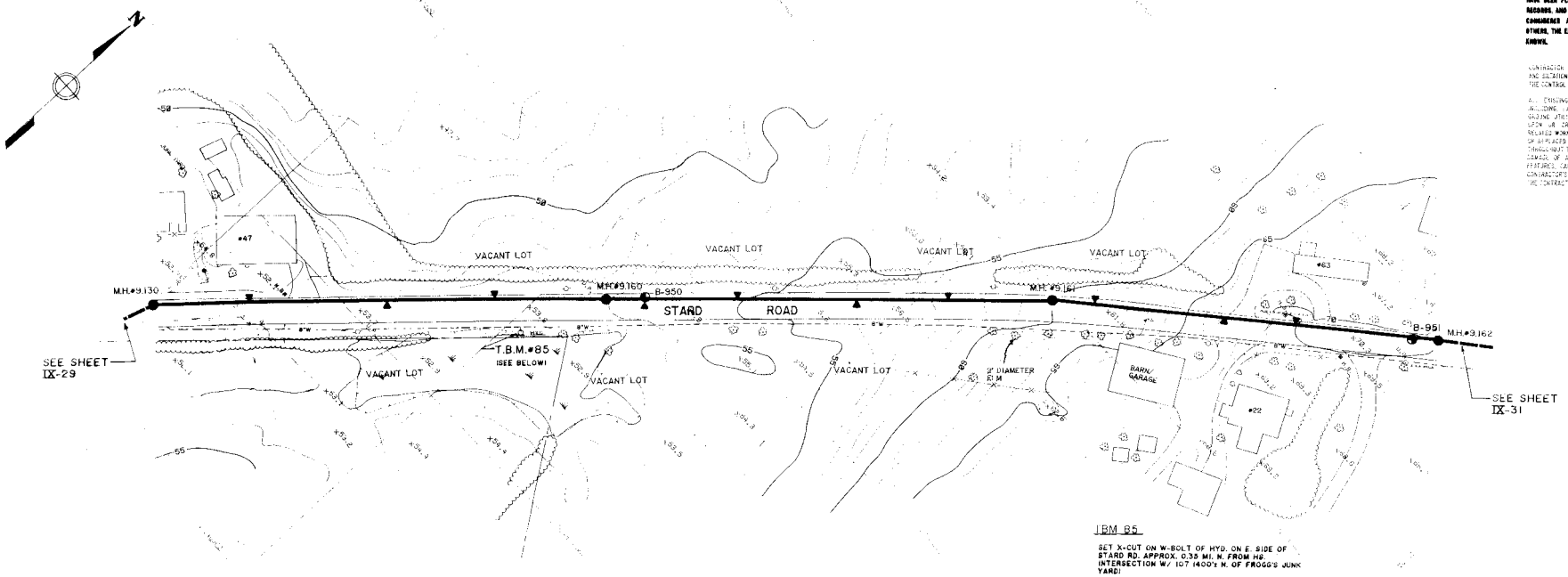


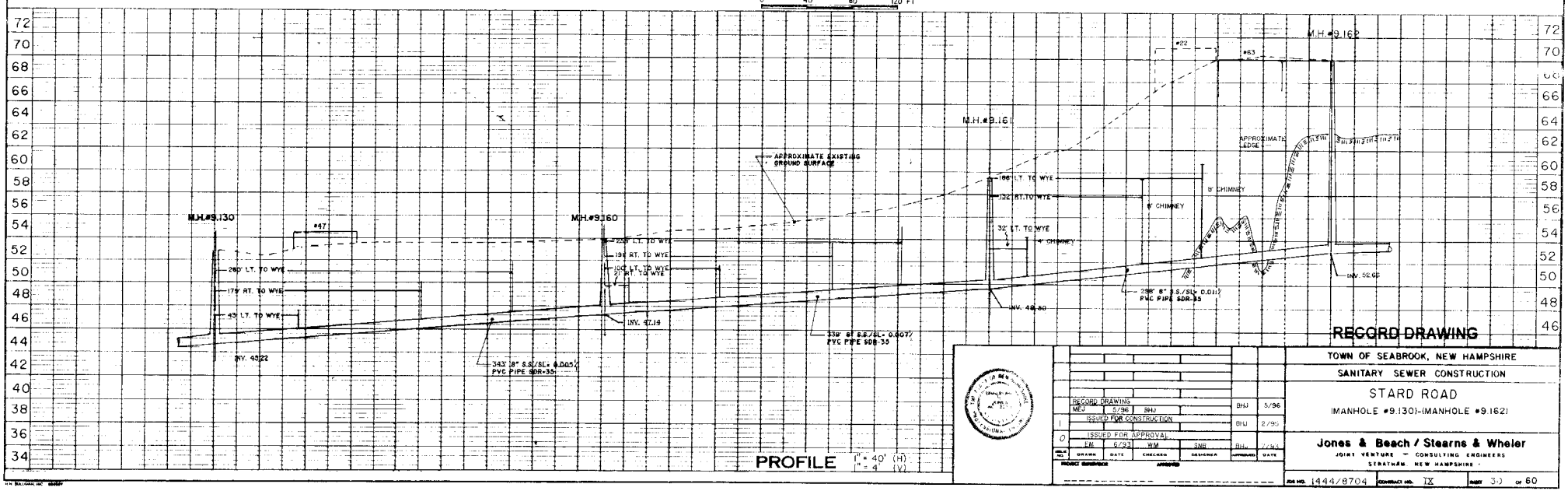
IBM 85

SET X-CUT ON W-BOLT OF HYD. ON E. SIDE OF STARD RD. APPROX. 0.35 MI. N. FROM HS INTERSECTION W/ 107 (400'± N. OF FROGG'S JUNK YARD)

ELEV. 55.27

PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
	MEJ	5/96	BHJ		BHJ	5/96
RECORD DRAWING						
1					BHJ	2/96
ISSUED FOR CONSTRUCTION						
0	EM	5/93	WM	SNB	BHJ	7/94
ISSUED FOR APPROVAL						

PROJECT ENGINEER APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

STARD ROAD

(MANHOLE #9.130)-(MANHOLE #9.162)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 30 OF 60

NOTE:
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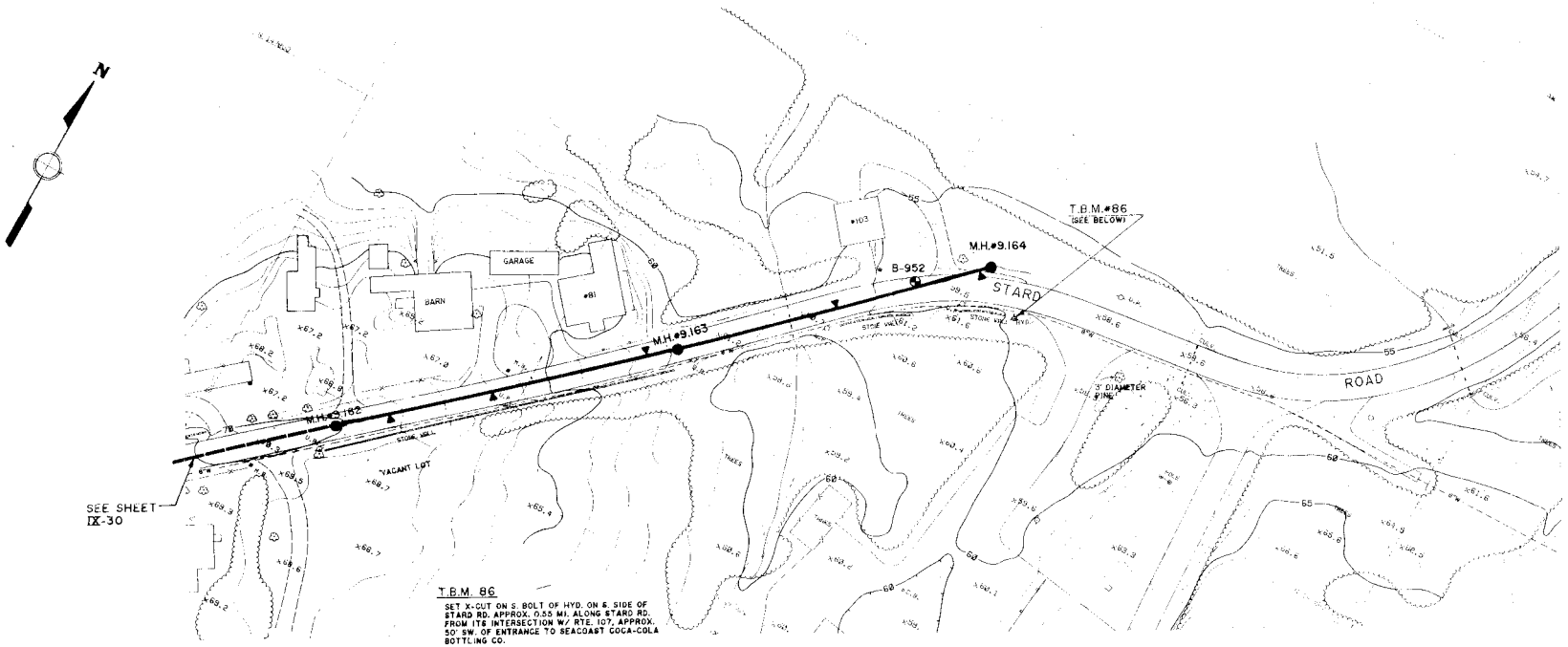
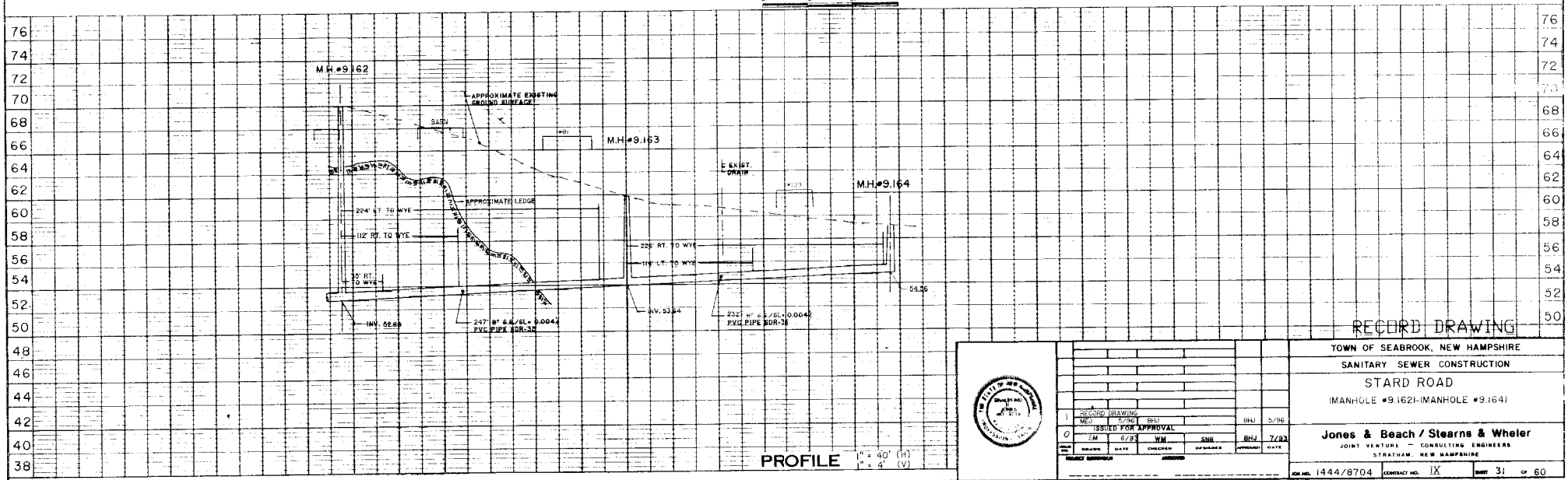


T.B.M. 86
SET X-CUT ON S. BOLT OF HYD. ON S. SIDE OF STARD RD. APPROX. 0.55 MI. ALONG STARD RD. FROM ITS INTERSECTION W/ RTE. 107, APPROX. 50' SW. OF ENTRANCE TO SEACOAST COCA-COLA BOTTLING CO.

ELEV. 61.39

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

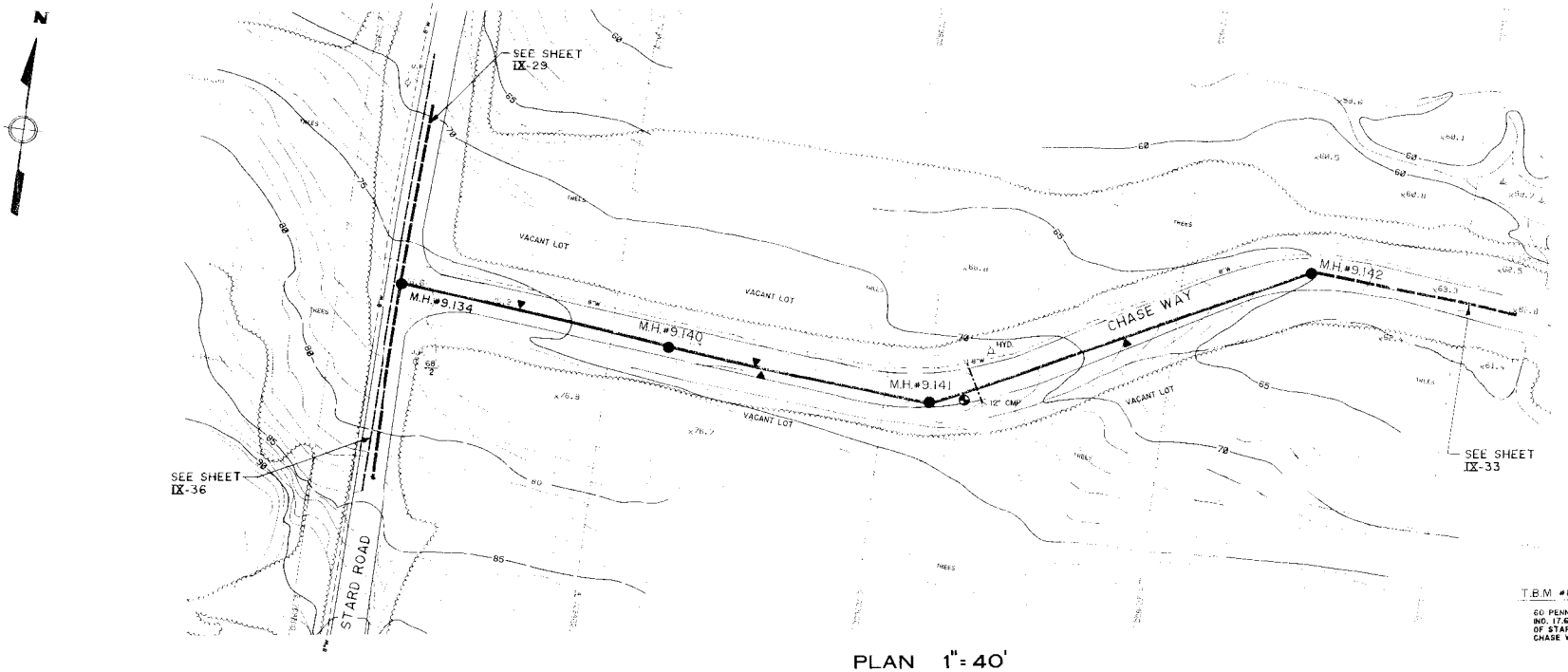
RECORD DRAWING

1	RECORD DRAWING	MEJ	5/96	BHJ	BHJ	5/96
0	ISSUED FOR APPROVAL	EM	6/93	WM	SNR / BHJ	7/93
		DRAWN	DATE	CHECKED	DESIGNED / APPROVED	DATE

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
STARD ROAD
(MANHOLE #9.162)-(MANHOLE #9.164)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 31 OF 60



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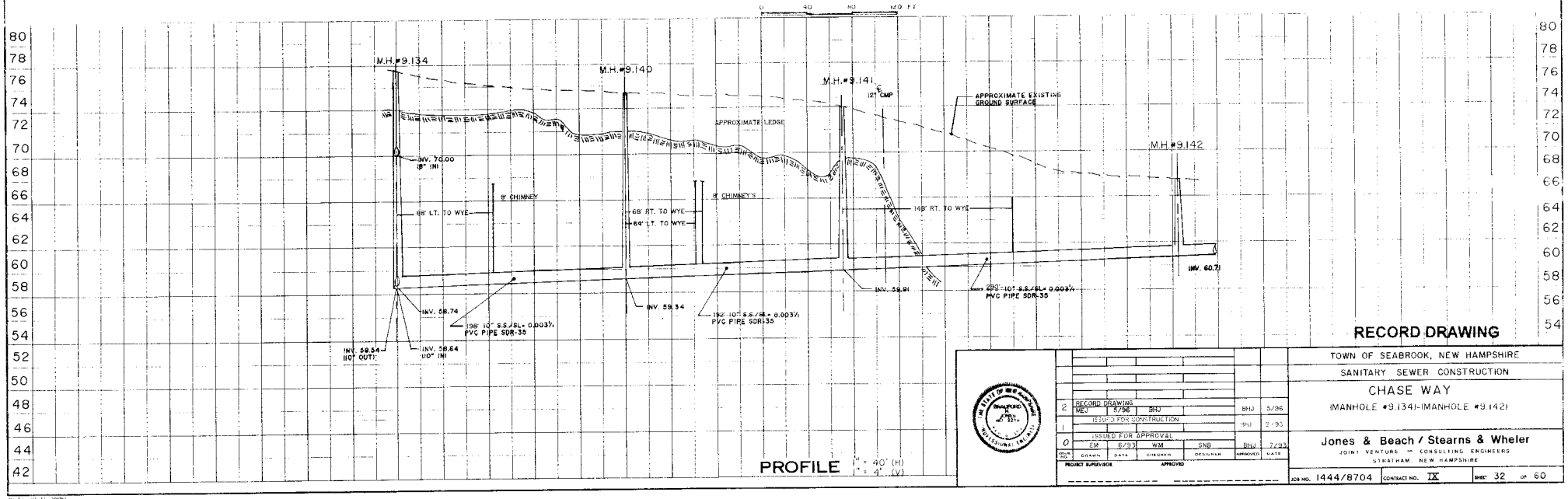
T.B.M. #84

60 PENNY NAIL IN W. FACE OF POWER POLE NO. 17.68 NET&T CO. 250/2/30A ON W. SIDE OF STARD RD. AT SE. INTERSECTION W/ CHASE WAY

ELEV. 81.56

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING MEJ	5/96	BHJ		BHJ	5/96
1	ISSUED FOR CONSTRUCTION				BHJ	2/95
0	ISSUED FOR APPROVAL EM	6/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

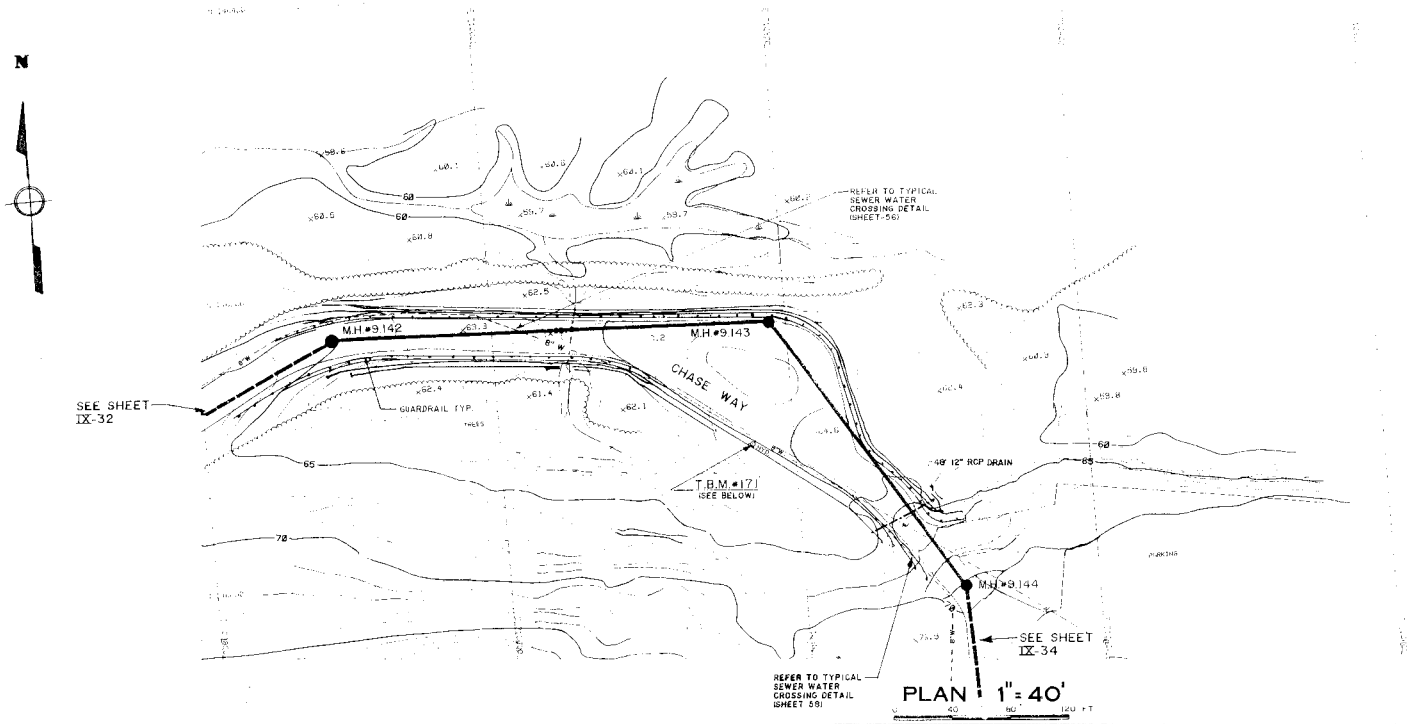
SANITARY SEWER CONSTRUCTION

CHASE WAY

(MANHOLE #9.134)-(MANHOLE #9.142)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 32 OF 60



NOTE:
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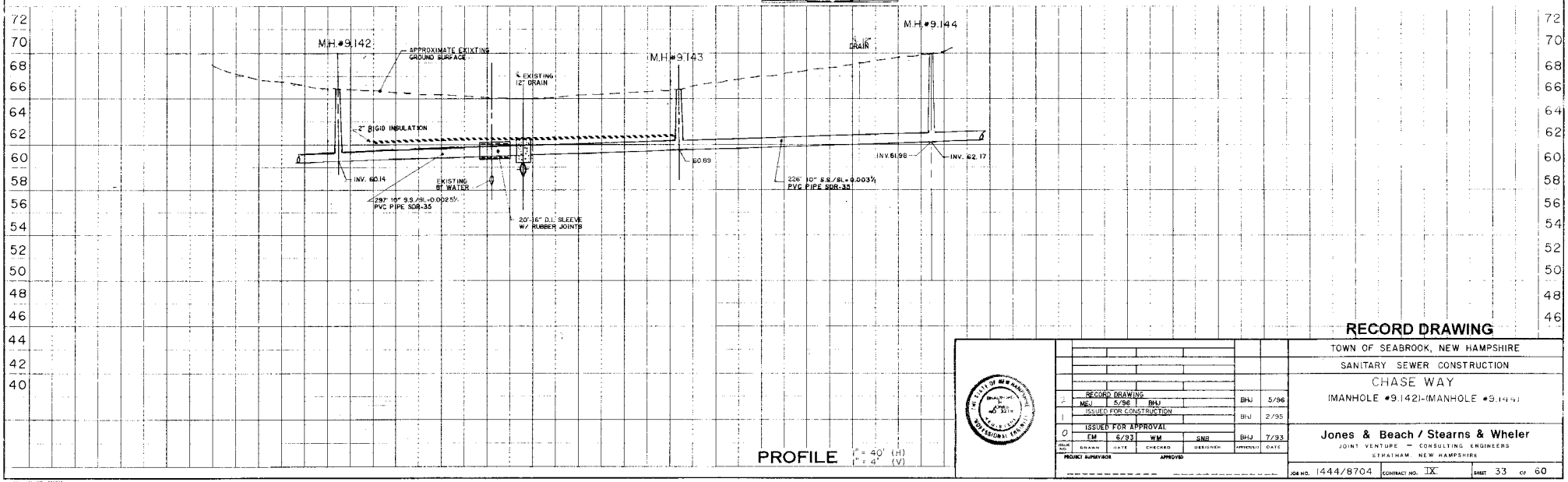
T.B.M.#171

X-CUT IN BOLT OF HYDRANT ON SOUTH SIDE OF CHASE WAY ABOUT 1000 FEET EAST OF ITS INTERSECTION WITH STARD ROAD

ELEV. 66.15



RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
	RECORD DRAWING					
	MEJ	5/96	BHJ		BHJ	5/96
1	ISSUED FOR CONSTRUCTION				BHJ	2/95
0	ISSUED FOR APPROVAL					
	EM	6/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CHASE WAY

(MANHOLE #9.142)-(MANHOLE #9.144)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 33 OF 60

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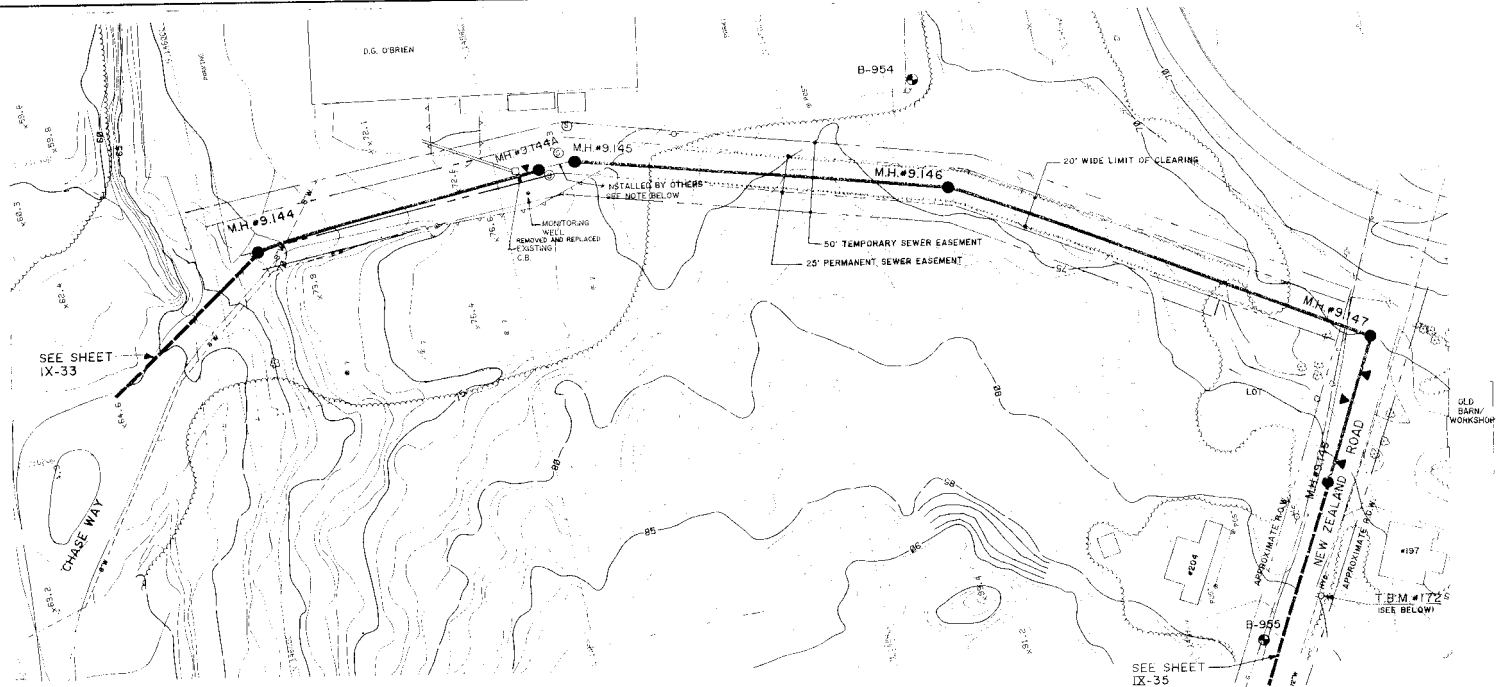
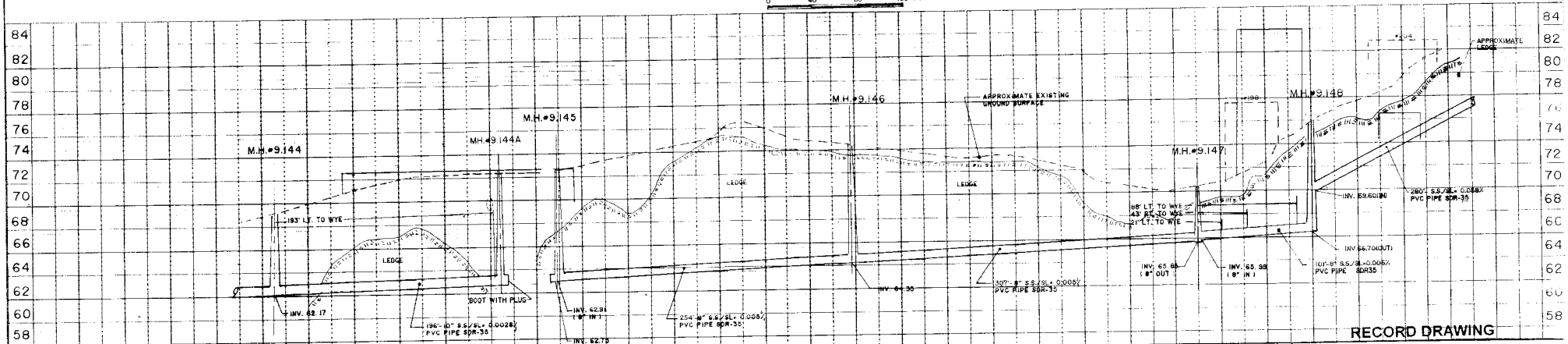


PLAN 1" = 40'
0 40 80 120 FT

T.B.M.#172

X-CUT IN BOLT OF HYDRANT ON SOUTH SIDE OF NEW ZEALAND RD. ABOUT 800 FEET EAST OF ITS INTERSECTION WITH STARD RD.

ELEV. 82.51



*NOTE: SECTION BETWEEN M.H.#9.144A AND M.H.#9.145 THROUGH EXISTING ACTIVE SEWAGE TANKS NOT COMPLETED AT DIRECTION OF CITY (JOHN DOLDI) TO BE DONE BY OTHERS AT BUILDING HOOK-UP.

PROFILE 1" = 40' (H) 1" = 4' (V)

3	RECORD DRAWING	MEJ	3/97	BHJ		BHJ	3/97
2	RELOCATED MANHOLE	SDC	7/95	BHJ	SDC	BHJ	7/95
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	EM	6/93	WM	SNB	BHJ	7/93
	DRWN. NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SURVEYOR APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CHASE WAY CROSS COUNTRY

(MANHOLE #9.144)-(MANHOLE #9.148)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 34 OF 60

NOTE:
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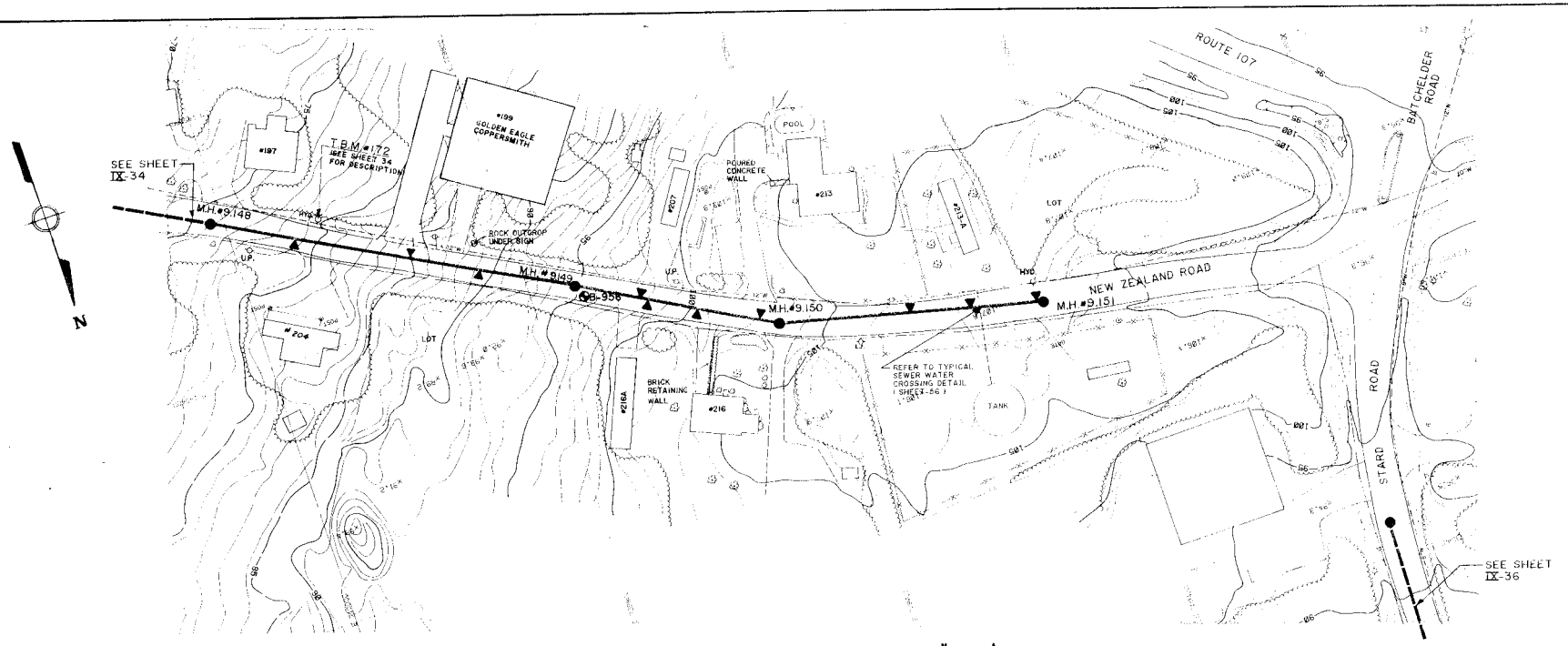
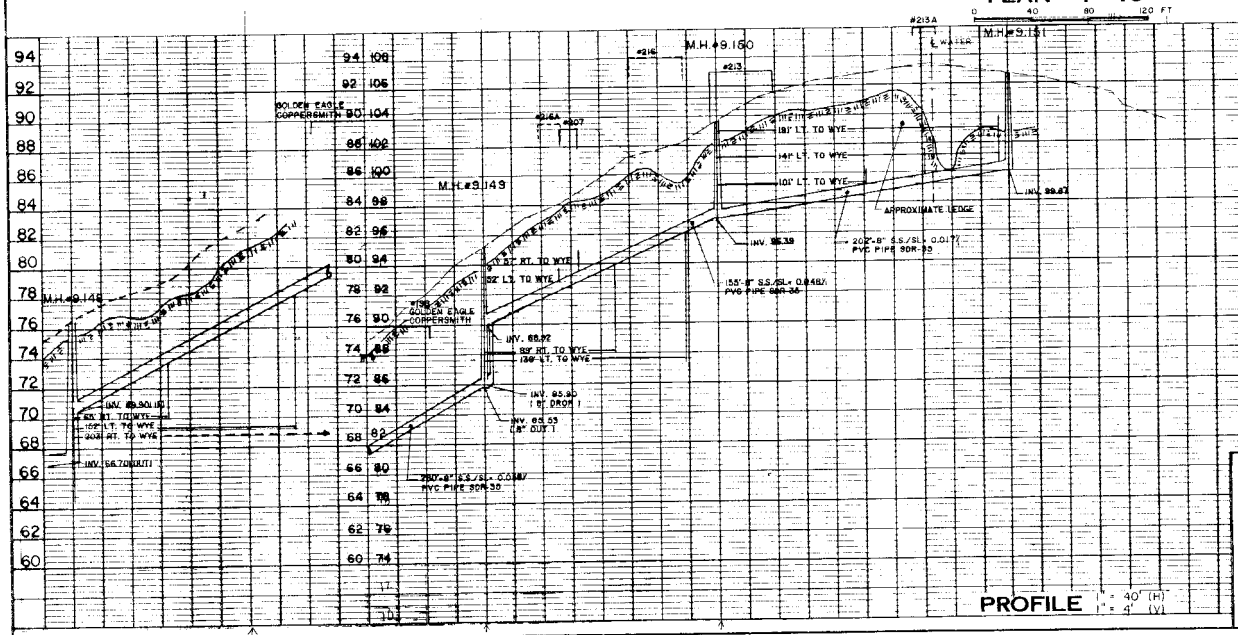


PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

1	RECORD DRAWING	MEJ	5/96	BHJ	mJ	5/96
0	ISSUED FOR APPROVAL	EM	6/93	WM	SNR	BHJ	7/93
NO.	DESIGN	DATE	CHECKED	DRAWN	APPROVED	DATE

SOURCE REFERENCE APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

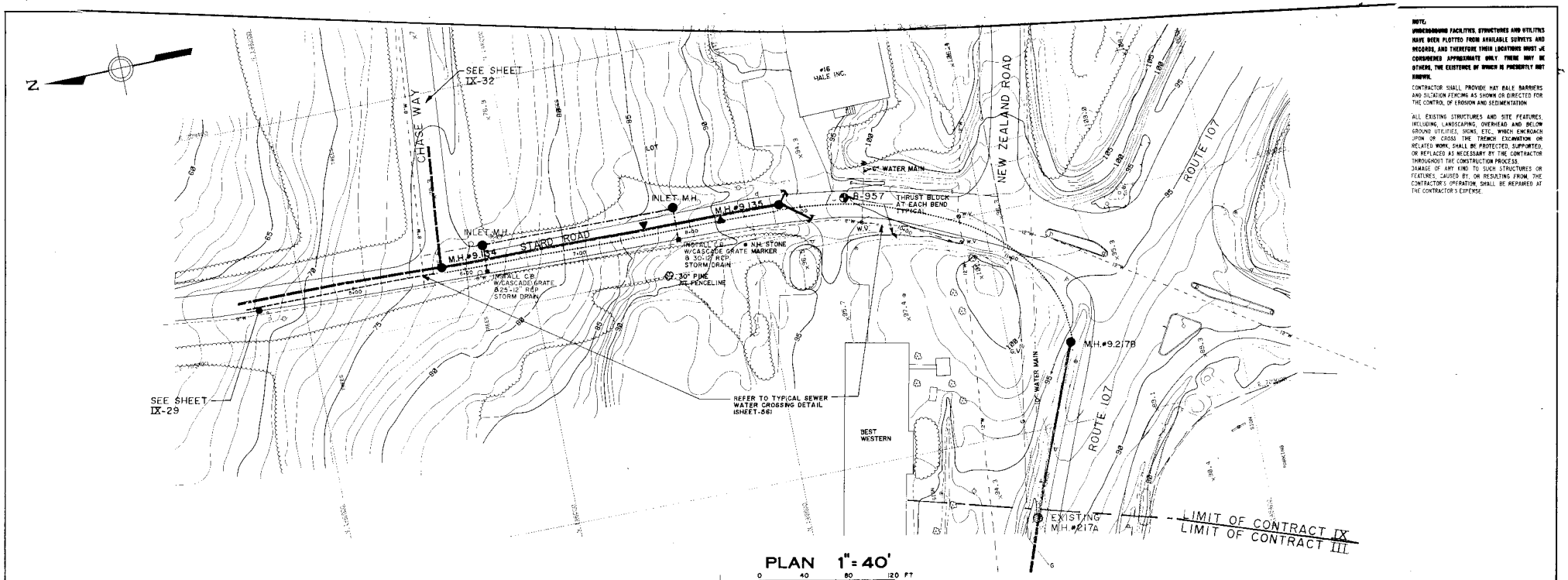
SANITARY SEWER CONSTRUCTION

NEW ZEALAND ROAD

(MANHOLE #9.148)-(MANHOLE #9.151)

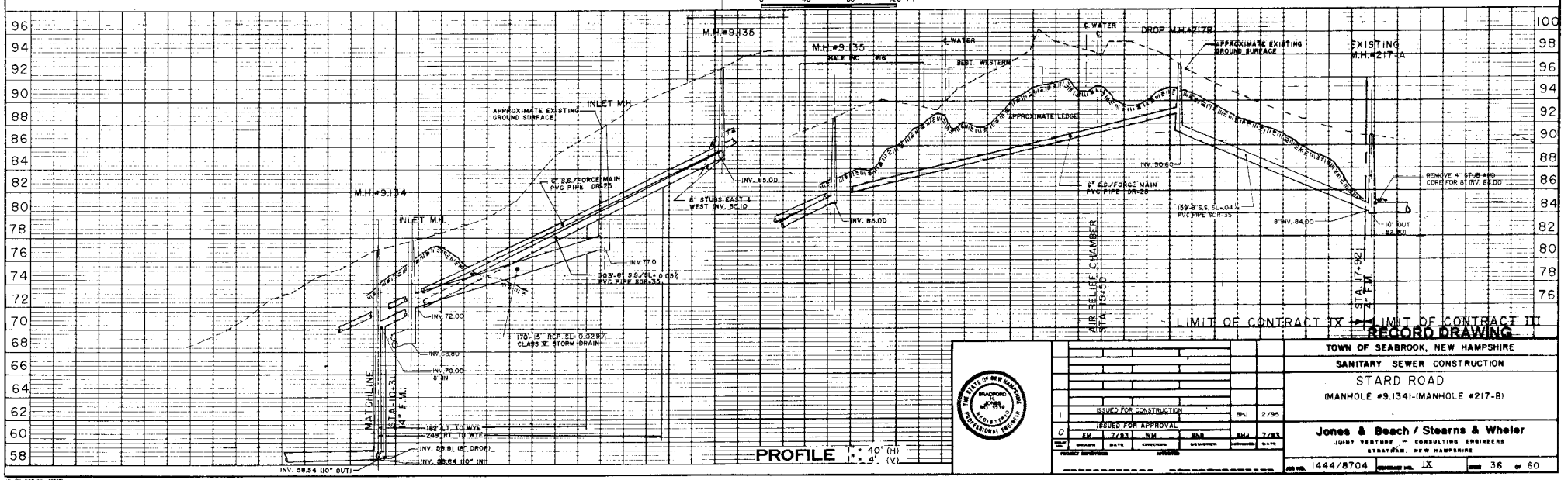
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 35 OF 60



PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 9' (V)

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RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

STARD ROAD

(MANHOLE #9.134)-(MANHOLE #217-B)

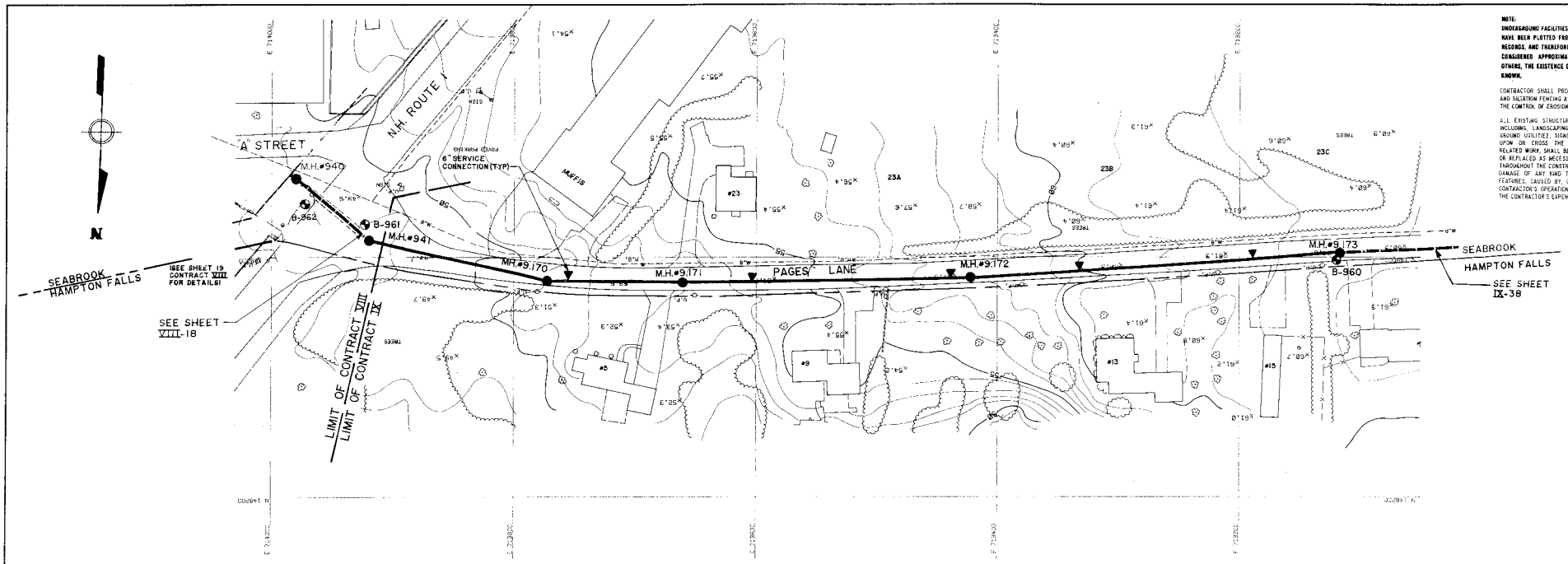
	ISSUED FOR CONSTRUCTION				BHJ	7/95
0	ISSUED FOR APPROVAL				BHJ	7/93
	EM	7/93	WM		BHJ	7/93
	DESIGN	DATE	CHECKED		DRAWN	DATE

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

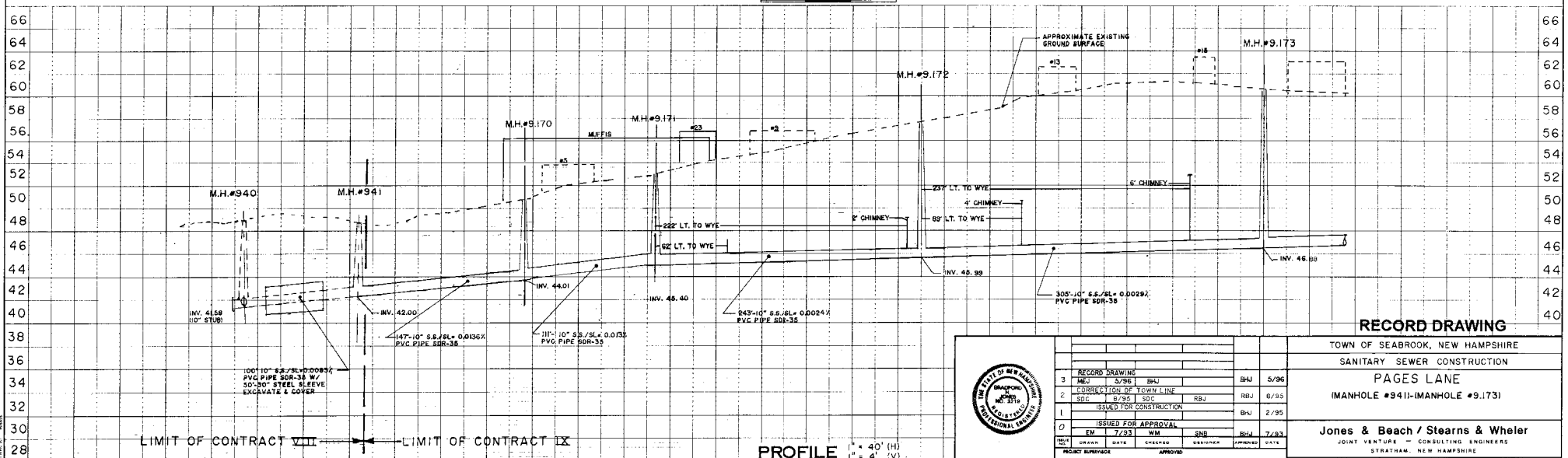
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 36 OF 60



PLAN 1" = 40'

0 40 80 120 FT



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RECORD DRAWING

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING MEJ	5/96	BHJ		BHJ	5/96
2	CORRECTION OF TOWN LINE SDC	8/95	SDC	RBJ	RBJ	8/95
1	ISSUED FOR CONSTRUCTION EM	7/93	WM	SNB	BHJ	2/95
0	ISSUED FOR APPROVAL EM	7/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

PAGES LANE

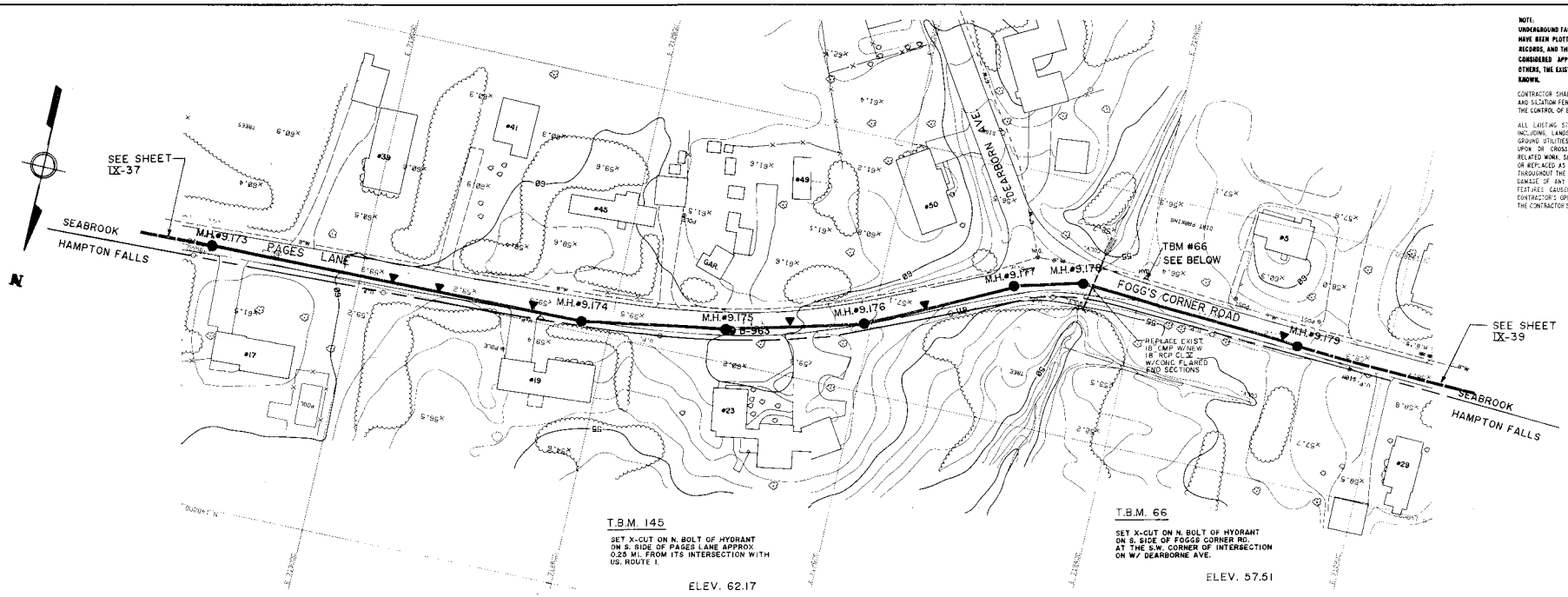
(MANHOLE #941)-(MANHOLE #9.173)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 37 OF 60



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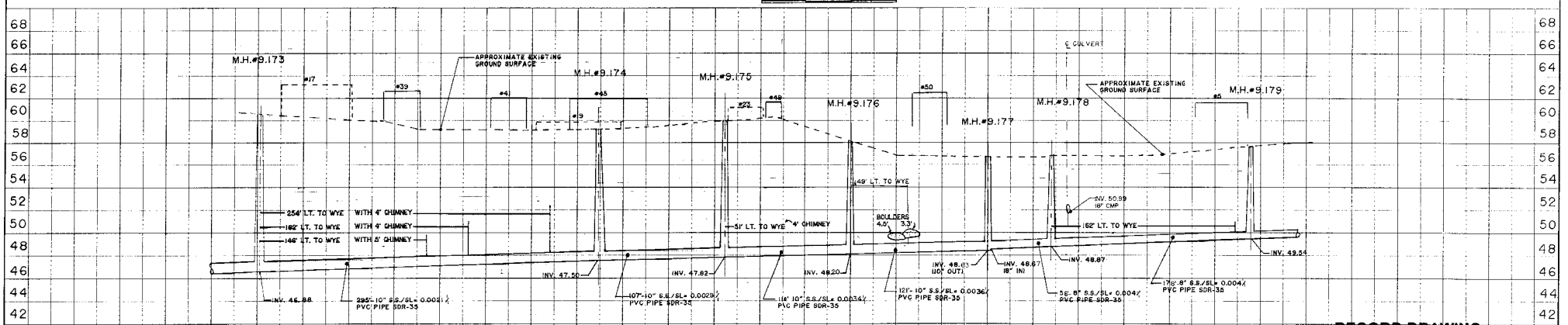
PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

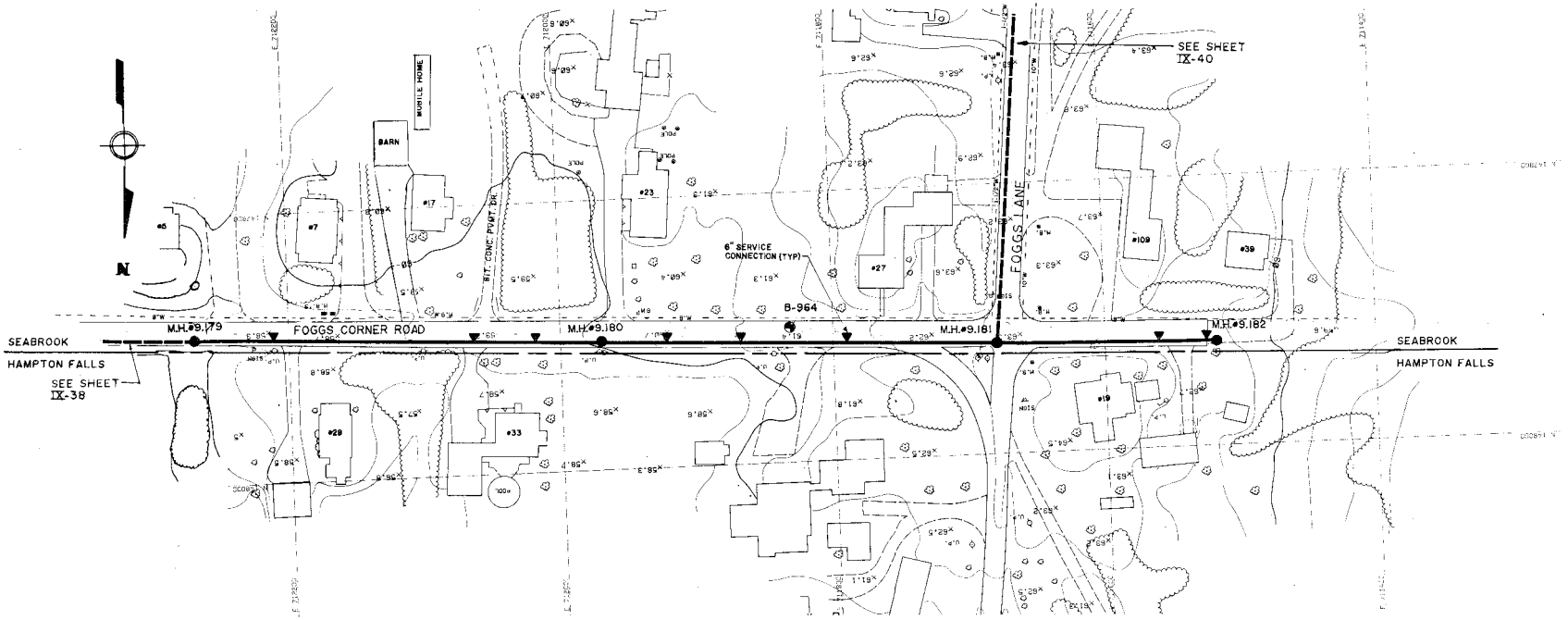
NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING MEJ	5/96	BHJ		BHJ	5/96
2	CORRECTION OF TOWN LINE SDC	9/95	SDC	RBJ	RBJ	9/95
1	ISSUED FOR CONSTRUCTION				BHJ	2/95
0	ISSUED FOR APPROVAL EM	7/93	WM	SNB	BHJ	7/93

PROJECT SURVEYOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
PAGES LANE
(MANHOLE #9.173)-(MANHOLE #9.179)

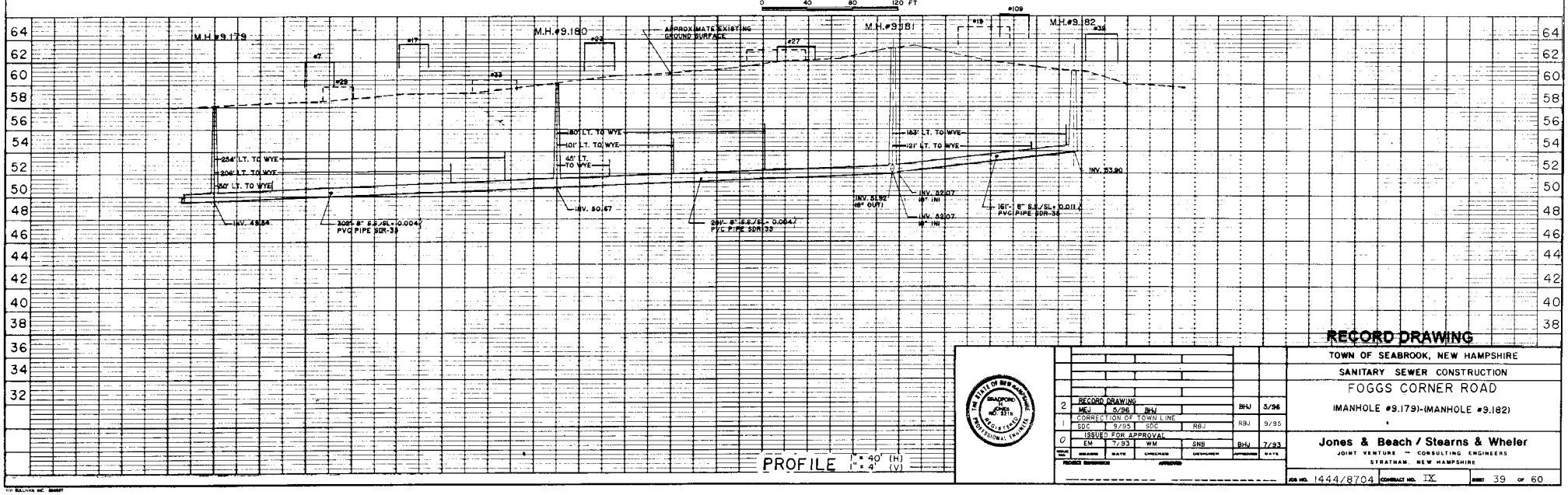
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 38 OF 60



PLAN 1" = 40'

0 40 80 120 FT



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RECORD DRAWING

NO.	DESCRIPTION	DATE	CHECKED	DESIGNED	APPROVED	DATE
2	RECORD DRAWING	MEJ 5/96	BHJ		BHJ	5/96
1	CORRECTION OF TOWN LINE	SDC 9/95	SDC	RBJ	RBJ	9/95
0	ISSUED FOR APPROVAL	EM 7/93	WM	SNB	BHJ	7/93

RECORD DRAWING APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOGGS CORNER ROAD

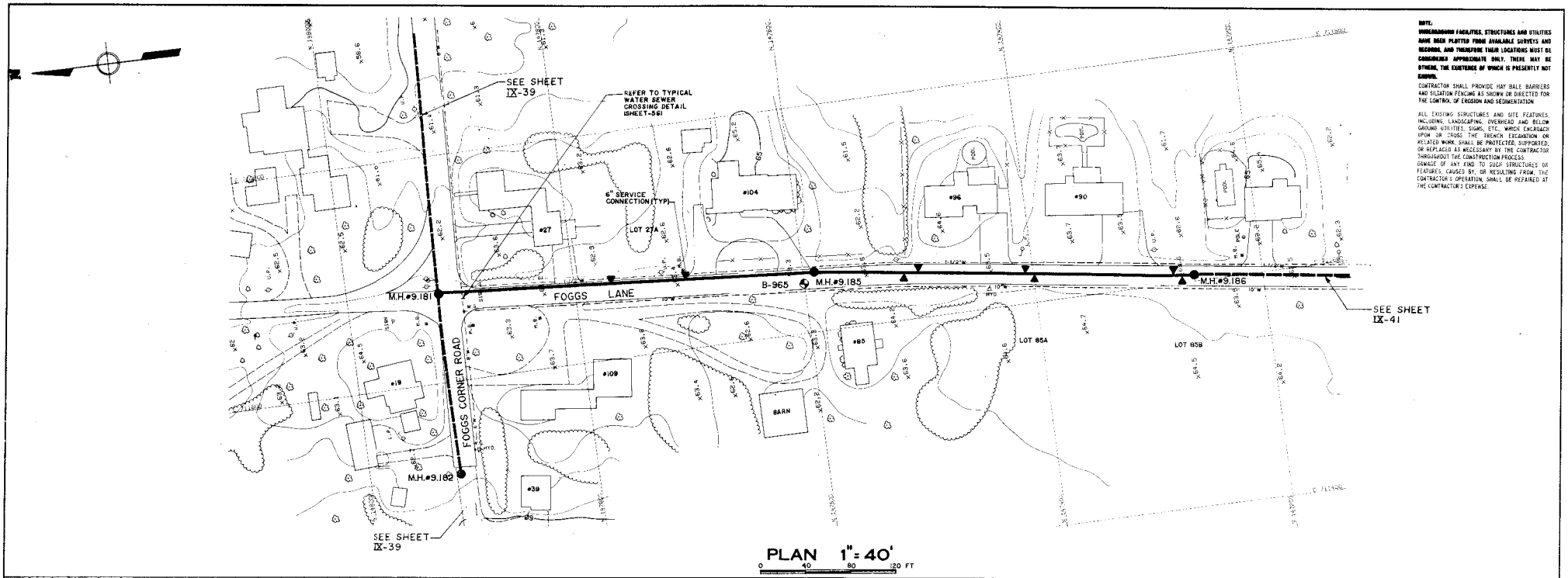
(MANHOLE #9.179)-(MANHOLE #9.182)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 39 OF 60



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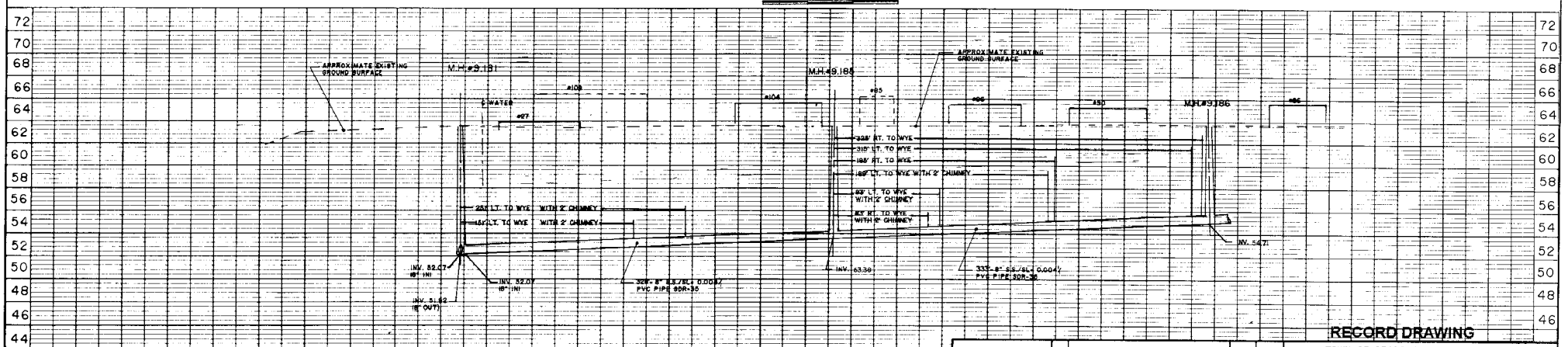
PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING	MEJ	5/96	BHJ		BHJ	5/96
0	ISSUED FOR APPROVAL	EM	7/93	WM	SNB	BHJ	7/93

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOGGS LANE

(MANHOLE #9.181)-(MANHOLE #9.186)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 40 OF 60

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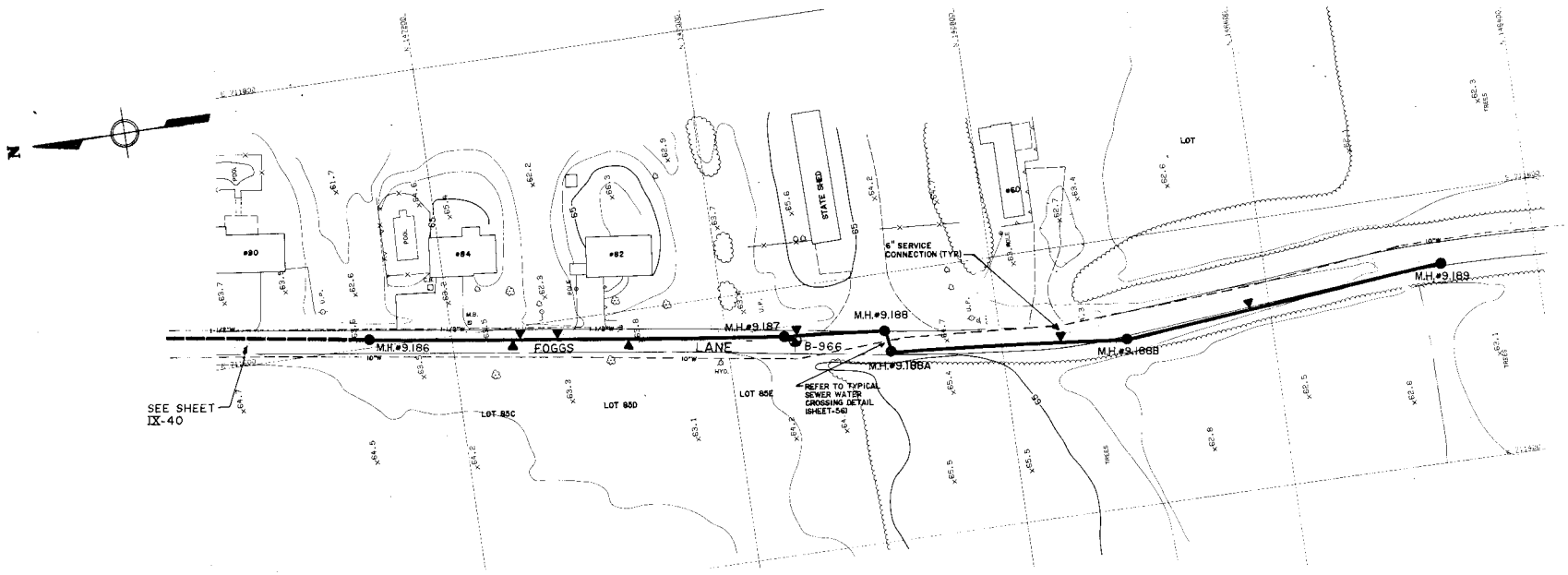
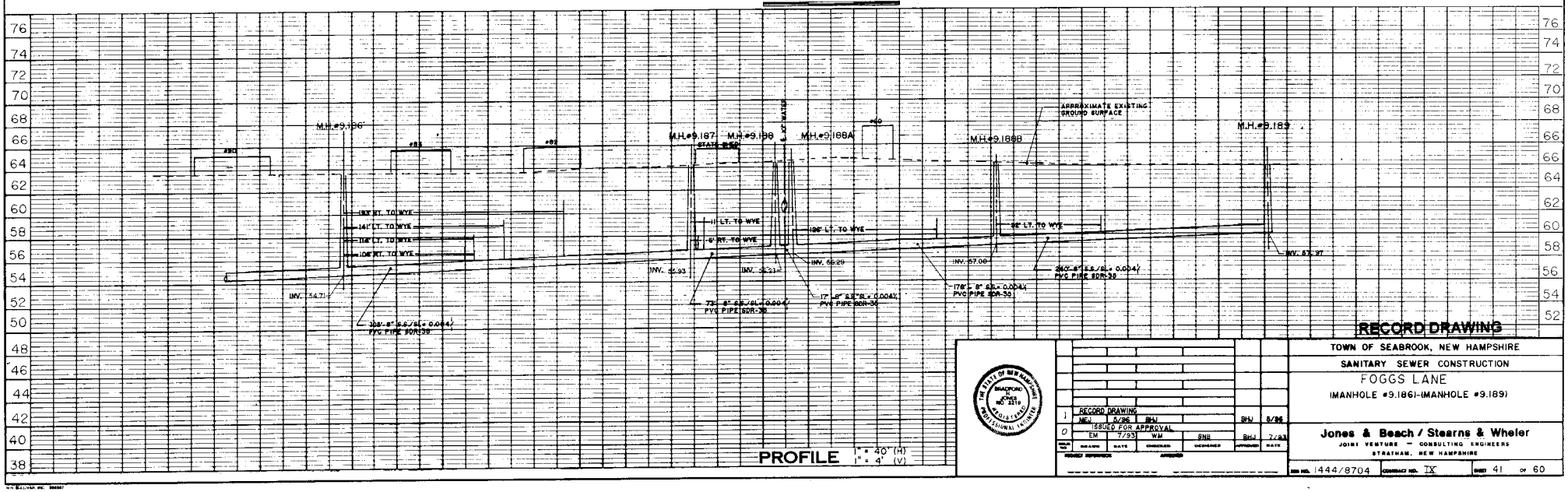


PLAN 1" = 40'

0 40 80 120 FT



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE — BRADFORD JONES No. 2319 — LICENSED PROFESSIONAL ENGINEER

1	RECORD DRAWING	MEW	5/96	BHJ		BHJ	5/96
0	ISSUED FOR APPROVAL	EM	7/93	WM	SNB	BHJ	7/93
ISSUE NO.	REMARKS	DATE	CHECKED		DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FOGGS LANE

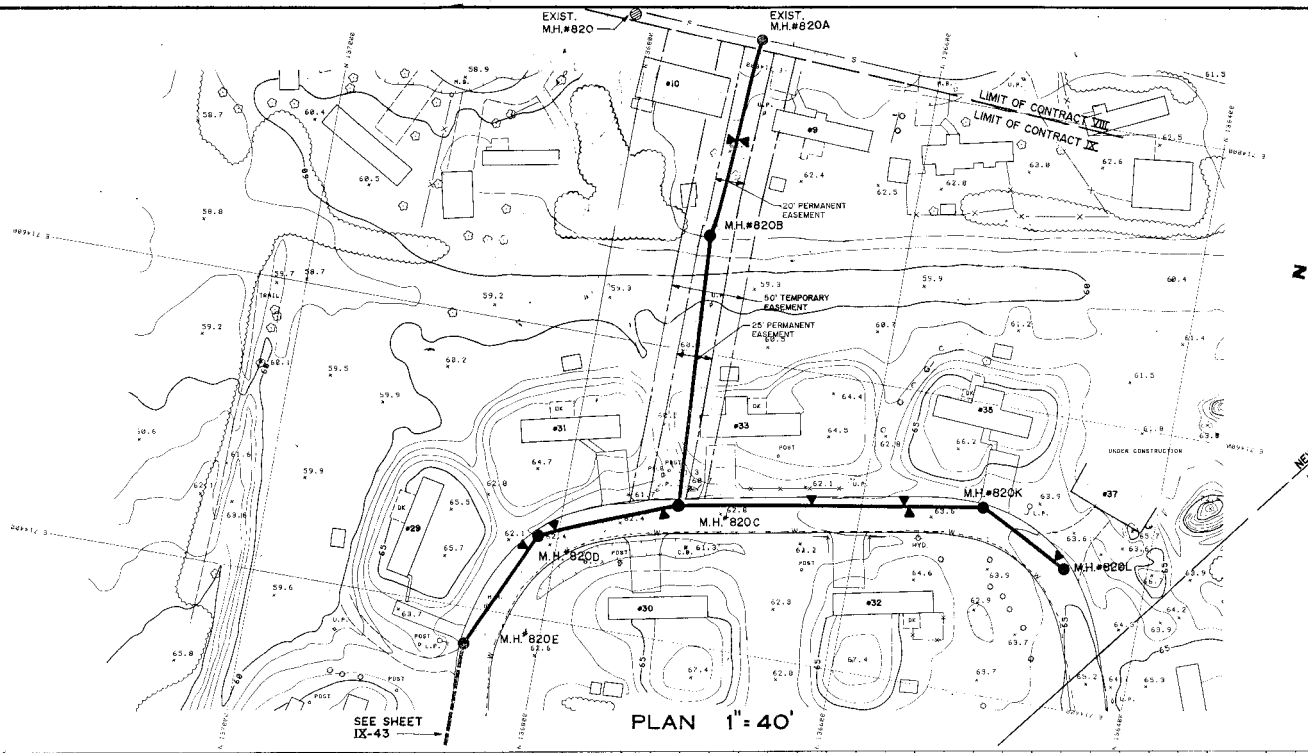
(MANHOLE #9.186)-(MANHOLE #9.189)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 41 OF 60



PLAN 1" = 40'

SCALE: 1" = 40' CONTOUR INTERVAL: 1'

MAPPING COMPILED BY STEREOPHOTOGRAMMETRIC METHODS FROM 1" = 4300' SCALE AERIAL PHOTOGRAPHY FLOWN 05/08/87.

MAPPING COMPILED WITHOUT BENEFIT OF A FIELD EXIT. DASHED CONTOURS INDICATE AREAS OF DOUBTFUL ACCURACY.

NOTES:

Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

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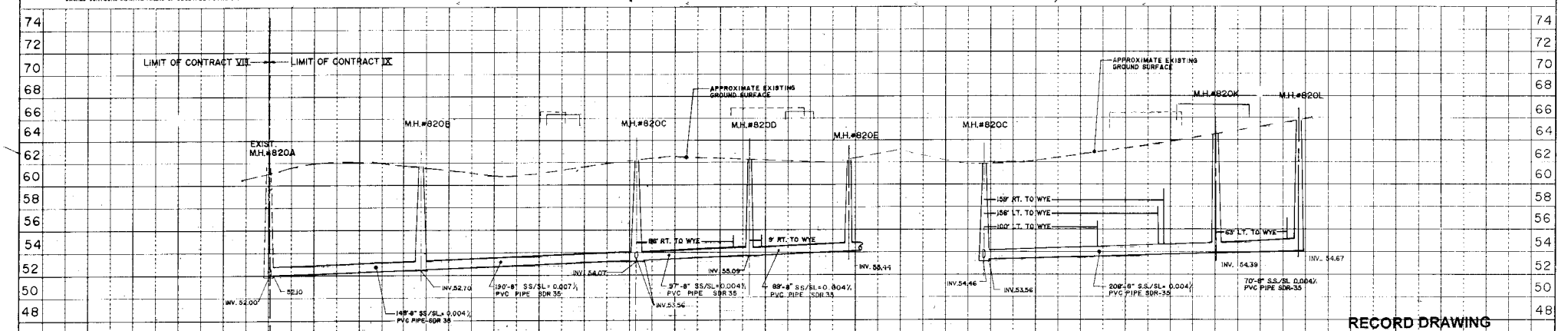


PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BROOKS DRIVE

(MANHOLE # 820A) - (MANHOLE # 820L)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	MEJ	5/96	BHJ		BHJ	5/96
2	REVISE EASEMENT & SEWER LOCATION	WK	6/95	WM	SC	BHJ	6/95
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	EM	2/94	WM	BHJ	BHJ	2/94

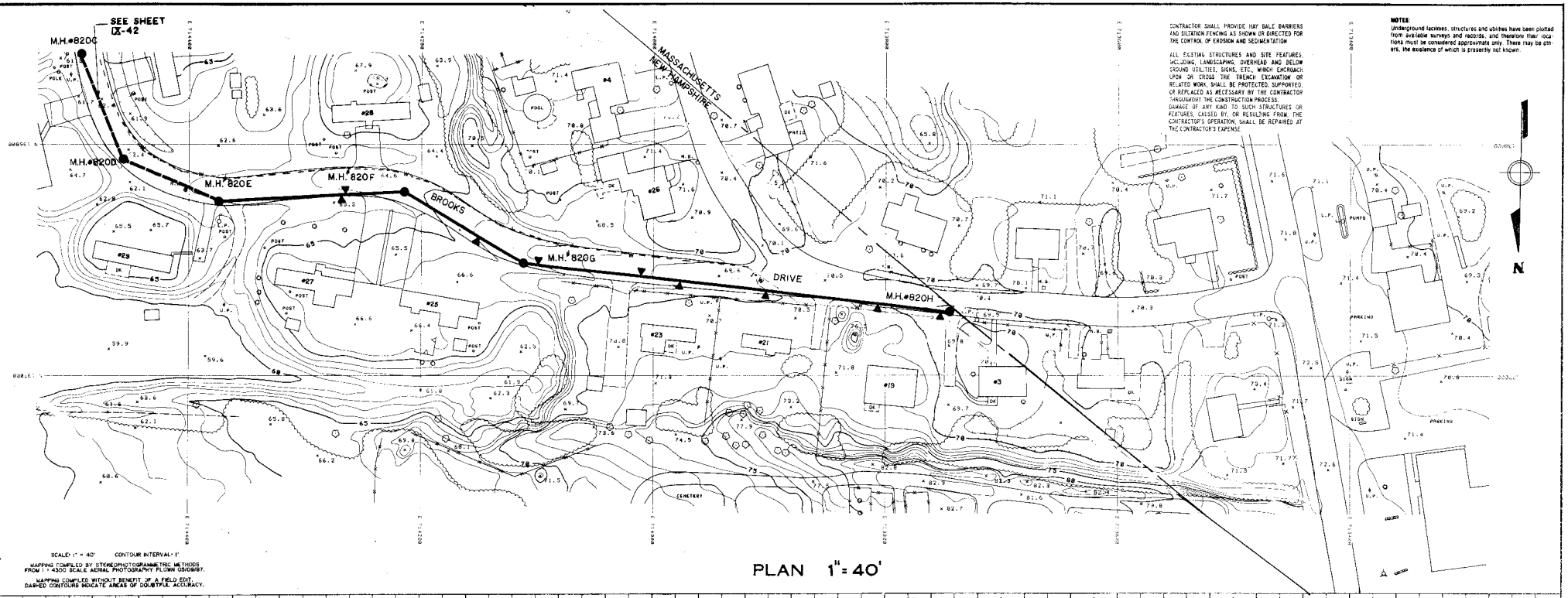
PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 42 OF 60

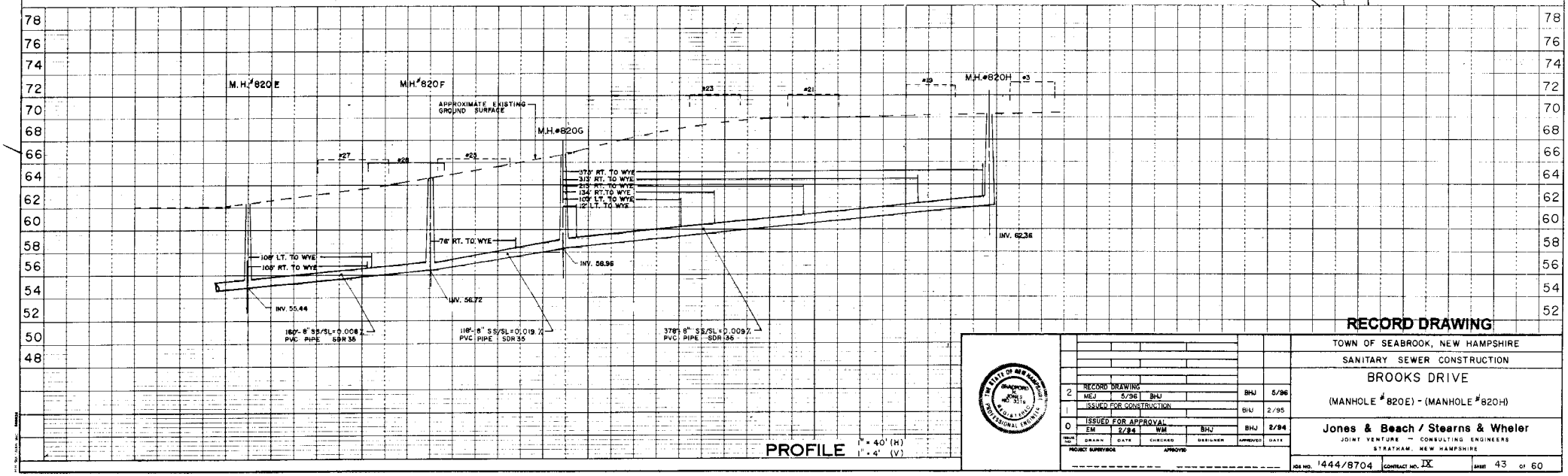


PLAN 1" = 40'

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existance of which is presently not known.



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

BROOKS DRIVE

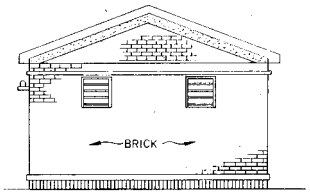
(MANHOLE #820E) - (MANHOLE #820H)

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	MEJ	5/96	BHJ		BHJ	5/96
1	ISSUED FOR CONSTRUCTION					BHJ	2/95
0	ISSUED FOR APPROVAL	EM	2/94	WM	BHJ	BHJ	2/94

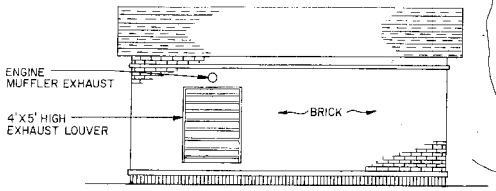
PROJECT SUPERVISOR: _____ APPROVED: _____

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

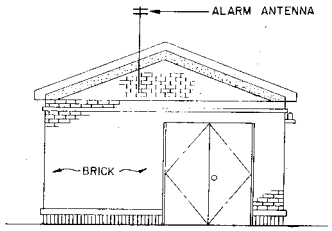
JOB NO. 1444/8704 CONTRACT NO. IX SHEET 43 OF 60



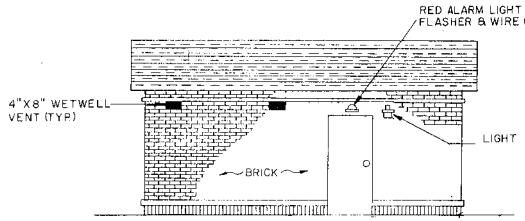
WEST ELEVATION



SOUTH ELEVATION



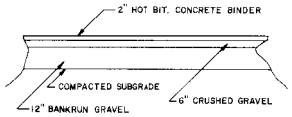
EAST ELEVATION



NORTH ELEVATION

ARCHITECTURAL ELEVATIONS

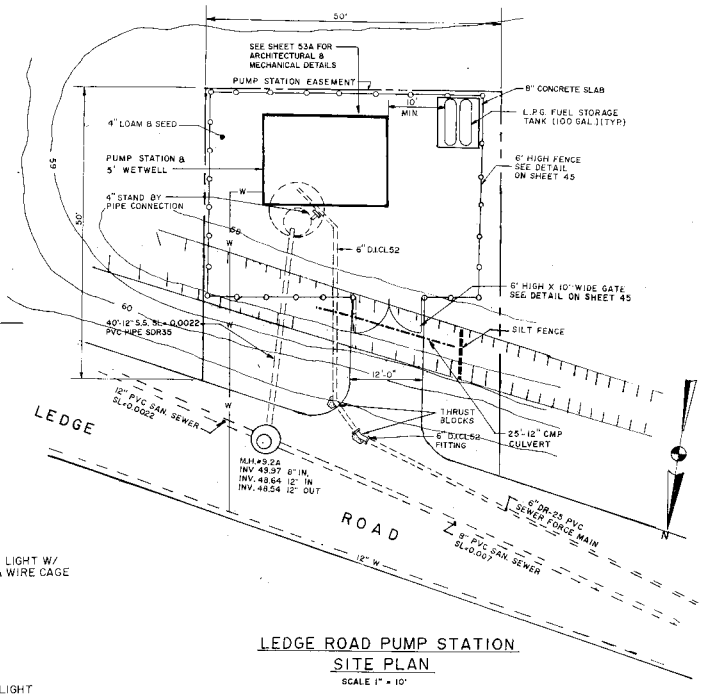
SCALE: 1/4" = 1'



PER NH DOT SPECIFICATIONS

TYPICAL DRIVEWAY CROSS SECTION

N.T.S.

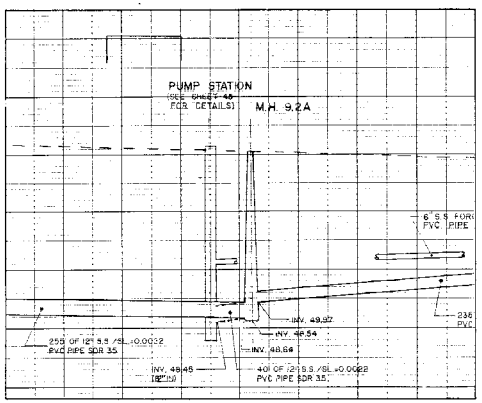


LEDGE ROAD PUMP STATION

SITE PLAN

SCALE 1" = 10'

NOTES:
Underground facilities structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others the existence of which is presently not known



PROFILE
1"=40' (H)
1"=4' (V)

	GENERAL REVISIONS					
1	WK	11/94	JEC	BHJ	BHJ	11/94
0	ISSUED FOR APPROVAL					
	EM	11/93				
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SURVEYOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

LEDGE ROAD PUMP STATION

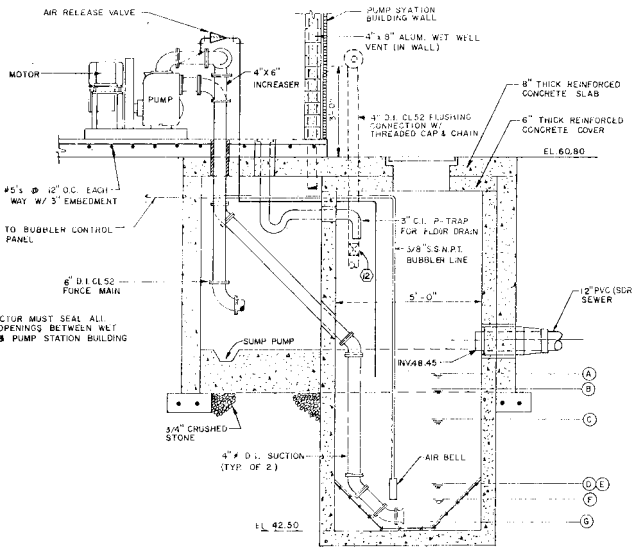
SITE PLANS AND DETAILS

Jones & Beach / Stearns & Wheler

JOINT VENTURE – CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. IX SHEET 44 OF 60



NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	48.45
B	LAG PUMP ON	48.00
C	LEAD PUMP ON	47.50
D	LAG PUMP OFF	45.00
E	LEAD PUMP OFF	45.00
F	L.W.L. ALARM	44.50
G	INVERT OF SUCTION	43.00

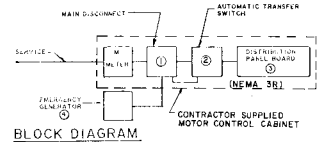
SECTION A-A
NO SCALE

PUMP STATION DESIGN

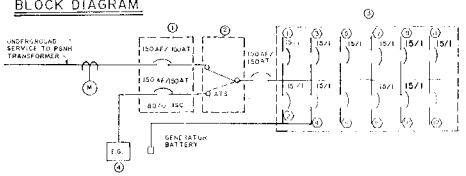
CONDITIONS OF SERVICE
175 G.P.M. AT 31.22 Ft. TDH

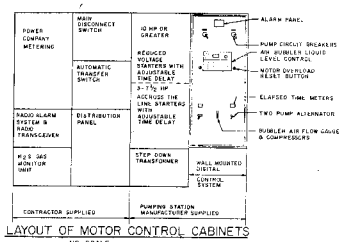
PUMPING EQUIPMENT
(2) - GORMAN RUPP, 5 H.P. PUMPS, MOD. # T4A-B 4" x 4", SELF-PRIMING, SUCTION LIFT PUMPS, w/ 9 3/4" IMPELLER, 1000 R.P.M.
POWER- 240 VOLT/1 PHASE/60 Hz/3 WIRE

PUMP STATION CONTROL EQUIPMENT
A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotometer
E) Alarm Horn & Silencer
F) Pump Volute Heaters
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) 30,000 BTU Gas Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) Automatic Transfer Switch For Switching Power Source From Power Company To Emergency Generator.
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 10, 60Hz, Grounded Duplex Receptacle
O) 115V Alarm Light in Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply
Q) 3KVA Stepdown Transformer



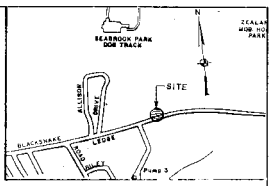
BLOCK DIAGRAM




POWER COMPANY METERING
MAIN DISCONNECT SWITCH
AUTOMATIC TRANSFER SWITCH
RADIO ALARM SYSTEM & RADIO TRANSCEIVER
DISTRIBUTION PANEL
H2S GAS MONITOR UNIT
10 HP OR GREATER
REDUCED VOLTAGE STARTERS WITH ADJUSTABLE TIME DELAY
ACROSS THE LINE STARTERS WITH ADJUSTABLE TIME DELAY
STEP DOWN TRANSFORMER
WALL MOUNTED DIGITAL CONTROL SYSTEM
ALARM PANEL
PUMP CIRCUIT BREAKERS
AIR BUBBLER LIQUID LEVEL CONTROL
MOTOR OVERLOAD RESET BUTTON
ELAPSED TIME METERS
TWO PUMP ALTERNATOR
BUBBLER AIR FLOW GAUGE & COMPRESSORS
CONTRACTOR SUPPLIED
PUMPING STATION MANUFACTURER SUPPLIED

LAYOUT OF MOTOR CONTROL CABINETS
NO SCALE

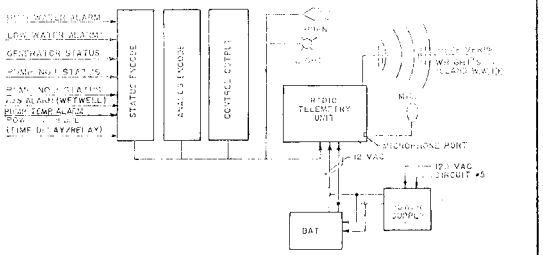
GENERAL NOTES:
1) ALL RACEWAYS TO RUN UNDERGROUND.
2) ALL EQUIPMENT TO BE NEMA-3R.
3) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 80KVA (SYMMETRICAL).



LOCUS PLAN
SCALE: 1" = 1000'

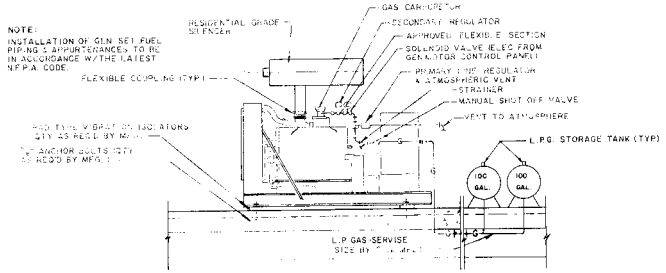
CIRCUITS

No.	DESCRIPTION	AMPS	VOLTS	PHASE
(1)	STATION HEATER	15	120	1
(2)	H_2S MONITOR	15	120	1
(3)	RECEPTACLE w/GROUND FAULT	15	120	1
(4)	GEN. SET BATTERY CHARGER	15	120	1
(5)	ALARM LIGHTS	15	120	1
(6)	SPARE			
(7)	RADIO TELEMETRY & LAPSE TIME METER	15	120	1
(8)	STATION VENTILATOR BLOWER	15	120	1
(9)	HAND HELD LIGHT	15	120	1
(10)	STATION LIGHTS	15	120	1
(11)	STATION LIGHTS	15	120	1
(12)	SPARE			

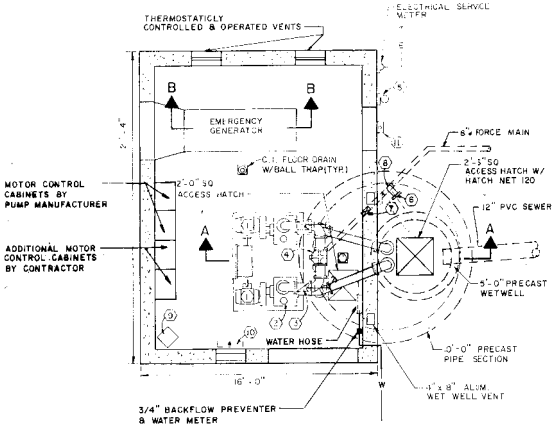


REMOTE TRANSMITTER RECEIVER

NOTE:
INSTALLATION OF GEN. SET FUEL PIPING & APPURTENANCES TO BE IN ACCORDANCE W/THE LATEST N.F.P.A. CODE.



SECTION B-B
NO SCALE


THERMOSTATICLY CONTROLLED & OPERATED VENTS
ELECTRICAL SERVICE METER
EMERGENCY GENERATOR
6" FORCE MAIN
G.I. FLOOR DRAIN W/BALL TRAP(TYP.)
2'-5"SQ ACCESS HATCH W/ HATCH NET 120
2'-0"SQ ACCESS HATCH
MOTOR CONTROL CABINETS BY PUMP MANUFACTURER
ADDITIONAL MOTOR CONTROL CABINETS BY CONTRACTOR
12" PVC SEWER
5'-0" PRECAST WETWELL
WATER HOSE
5'-0" PRECAST PIPE SECTION
16'-0"
4"x 8" ALUM. WET WELL VENT
3/4" BACKFLOW PREVENTER & WATER METER

PLAN - PUMPING STATION & STANDBY GENERATOR
SCALE: 1/4"= 1'-0"

PLAN VIEW LEGEND

(1) PUMP MOTOR (TYP. 2)
(2) PUMP (TYP.2)
(3) 4" ø FULL FLOW SWING CHECK VALVE (TYP.2)
(4) 4" ø 3-WAY PLUG VALVE
(5) 150 WHPS LIGHT, AUTO ELEC. SWITCH
(6) 4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
(7) 6" ø D.I. FLG. GATE VALVE
(8) 6"X6"X4"ø D.I. FLG. TEE.
(9) GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
(10) FIBERGLASS WALL PROPELLOR EXHAUST FAN W/ MOTOR OPERATED DAMPER
(11) NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER
(12) 4" ø D.I. FLG. GATE VALVE

ADDITIONAL MOTOR CONTROL CENTER COMPONENTS BY CONTRACTOR

1 AUTOMATIC TRANSFER SWITCH
2 DISTRIBUTION PANEL
3 RADIO ALARM SYSTEM (RTU)
4 RADIO TRANSCEIVER
5 H2S GAS MONITOR UNIT
6 50' WATERPROOF HAND HELD LIGHT

TYPICAL FENCE DETAIL

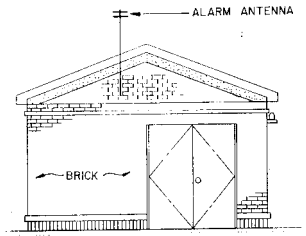
NO.	DATE	REVISION
1	11/94	GENERAL REVSIONS
0	11/93	ISSUED FOR APPROVAL

TOWN OF SEABROOK, NEW HAMPSHIRE
LEDGE ROAD PUMP STATION

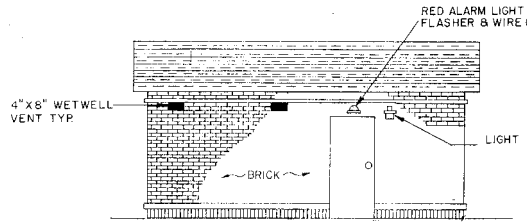
PUMP STATION DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

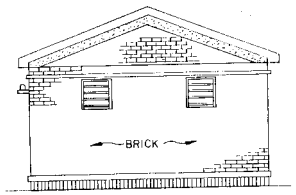
JOB NO.	CONTRACT NO.	SHEET
1444/8704	IX	45 OF 60



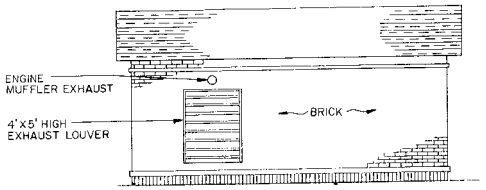
WEST ELEVATION



SOUTH ELEVATION

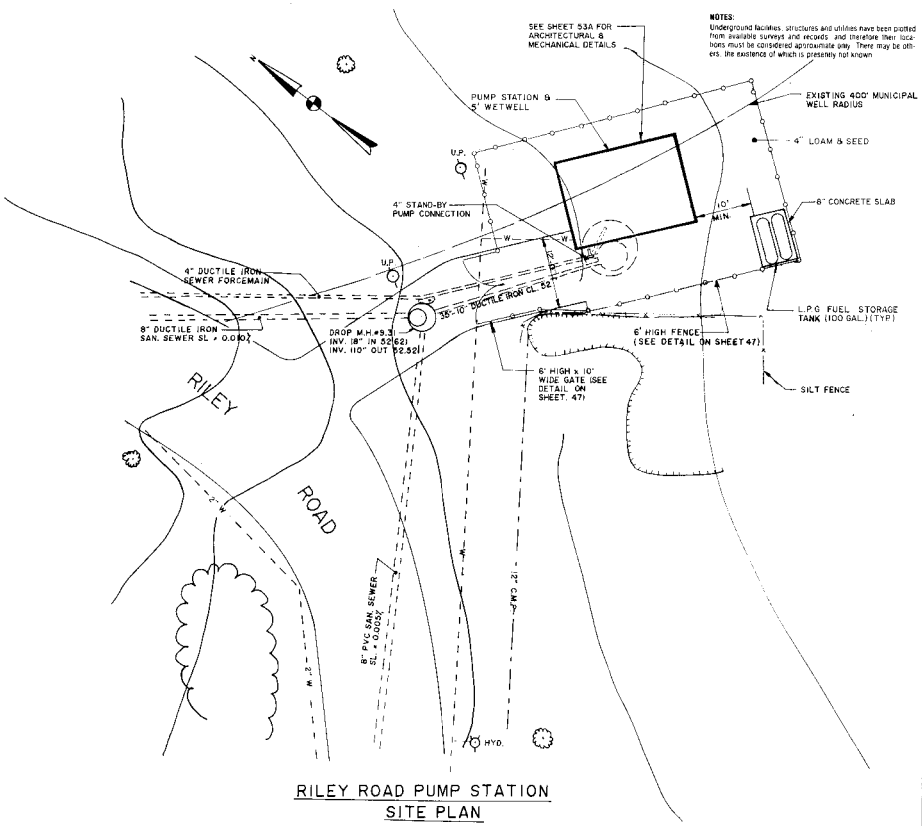


EAST ELEVATION



NORTH ELEVATION

ARCHITECTURAL ELEVATIONS.
SCALE: 1/4" = 1'


NOTES:
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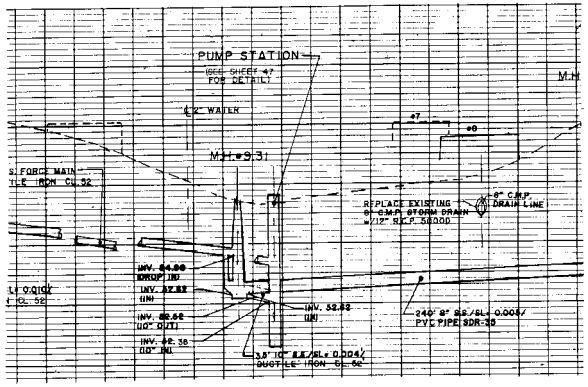
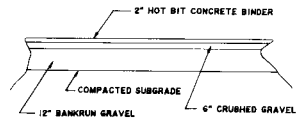
SEE SHEET 53A FOR ARCHITECTURAL & MECHANICAL DETAILS
PUMP STATION & 5' WETWELL
EXISTING 400' MUNICIPAL WELL RADIUS
4" LOAM & SEED
U.P.
4" STAND-BY PUMP CONNECTION
8" CONCRETE SLAB
10' MIN.
4" DUCTILE IRON SEWER FORCEMAIN
U.P.
35'-10" DUCTILE IRON CL. 52
L.P.G. FUEL STORAGE TANK (100 GAL.) (TYP.)
8" DUCTILE IRON SAN. SEWER SL = 0.010
DROP M.H. #9.31 INV. 18" IN 52.62 INV. 110" OUT 52.52
6' HIGH FENCE (SEE DETAIL ON SHEET 47)
6' HIGH x 10' WIDE GATE (SEE DETAIL ON SHEET 47)
SILT FENCE
RILEY
ROAD
8" PVC SAN. SEWER SL = 0.005
12" C.M.P.
HYD.

RILEY ROAD PUMP STATION
SITE PLAN
SCALE 1" = 10'


PUMP STATION
(SEE SHEET 47 FOR DETAIL)
M.H.
6'-2" WATER
M.H. #9.31
8" FORCE MAIN
DUCTILE IRON CL. 52
REPLACE EXISTING 8" C.M.P. STORM DRAIN W/12" R.C.P. SD.000
8" C.M.P. DRAIN LINE
INV. 54.00 DROP 18"
INV. 52.52 (IN)
INV. 52.62 (10" OUT)
INV. 52.38 (10" IN)
INV. 52.52 (IN)
240' 8" S.D. SL= 0.005 PVC PIPE SDR-35
35' 12" R.C.P. SL= 0.004 DUCTILE IRON CL. 52

PROFILE
SCALE 1" = 40' (H)
1" = 8' (V)



PER N.H. DOT SPECIFICATIONS

TYPICAL DRIVEWAY CROSS SECTION
N.T.S.

THE STATE OF NEW HAMPSHIRE
MALPOSE
NO. 3216
PROFESSIONAL ENGINEER

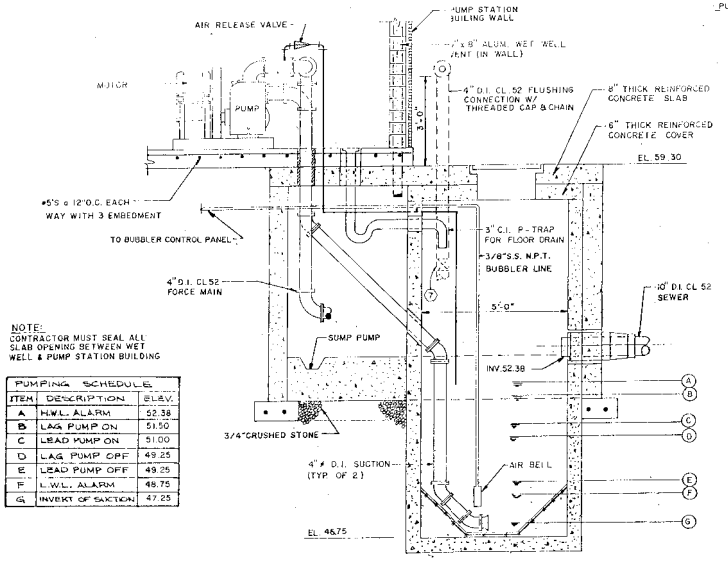
					BHJ	11/94
	GENERAL REVISIONS					
WK	11/94	JEC	BHJ	BHJ	11/94	
0	ISSUED FOR APPROVAL					
EM	3/94	JEC	EM	BHJ	3/94	
DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE	

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
RILEY ROAD PUMP STATION
SITE PLANS AND DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

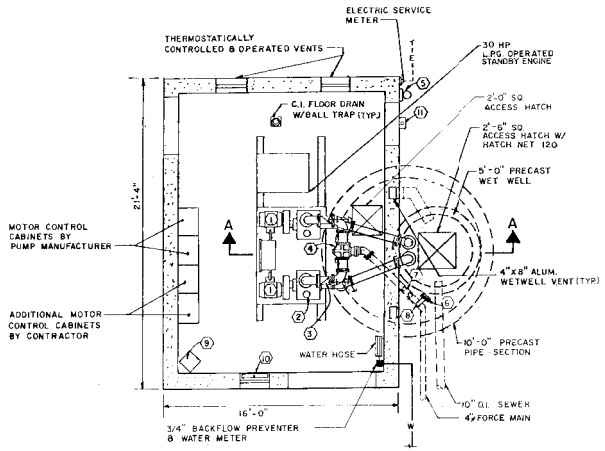
JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 46 OF 60


AIR RELEASE VALVE
PUMP STATION BUILDING WALL
4"x8" ALUM. WET WELL VENT (IN WALL)
MOTOR
PUMP
4" D.I. CL.52 FLUSHING CONNECTION W/ THREADED CAP & CHAIN
8" THICK REINFORCED CONCRETE SLAB
6" THICK REINFORCED CONCRETE COVER
EL. 59.30
#5'S @ 12" O.C. EACH WAY WITH 3 EMBEDMENT
TO BUBBLER CONTROL PANEL
3" C.I. P-TRAP FOR FLOOR DRAIN
3/8" S.S. N.P.T. BUBBLER LINE
4" D.I. CL.52 FORCE MAIN
10" D.I. CL.52 SEWER
5'-0"
SUMP PUMP
INV. 52.38
3/4" CRUSHED STONE
4" ø D.I. SUCTION (TYP. OF 2)
AIR BELL
EL. 46.75

NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENING BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	@ E.L.
A	H.W.L. ALARM	52.38
B	LAG PUMP ON	51.50
C	LEAD PUMP ON	51.00
D	LAG PUMP OFF	49.25
E	LEAD PUMP OFF	49.25
F	L.W.L. ALARM	48.75
G	INVERT OF SUCTION	47.25

SECTION A-A
NO SCALE


ELECTRIC SERVICE METER
THERMOSTATICALLY CONTROLLED & OPERATED VENTS
30 HP L.P.G. OPERATED STANDBY ENGINE
C.I. FLOOR DRAIN W/BALL TRAP (TYP.)
2'-0" SQ. ACCESS HATCH
2'-6" SQ. ACCESS HATCH W/ HATCH NET 120
5'-0" PRECAST WET WELL
21'-4"
MOTOR CONTROL CABINETS BY PUMP MANUFACTURER
ADDITIONAL MOTOR CONTROL CABINETS BY CONTRACTOR
4"X8" ALUM. WETWELL VENT (TYP.)
10'-0" PRECAST PIPE SECTION
WATER HOSE
16'-0"
3/4" BACKFLOW PREVENTER & WATER METER
10" D.I. SEWER
4" FORCE MAIN

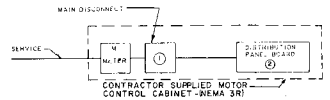
PLAN - PUMPING STATION & AUTOSTART
SCALE: 1/4" = 1'-0"

PUMP STATION DESIGN

CONDITIONS OF SERVICE
125 G.P.M. AT 39.79 ft. TDH

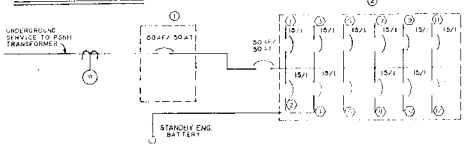
PUMPING EQUIPMENT
(2) - GORMAN RUPP, 7.5 H.P. PUMPS, MOD. # T4A-B
4" x 4", SELF-PRIMING, SUCTION LIFT PUMPS, w/
9 3/4" IMPELLER, 1155 R.P.M.
POWER- 480 VOLT/3 PHASE/60 Hz/4 WIRE

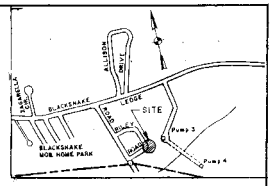
PUMP STATION CONTROL EQUIPMENT
A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotameter
E) Alarm Horn & Silencer
F) Pump Volute Heaters
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) 30,000 BTU Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) Standby Level Control For Switching Power Source From Power Company To Emergency Standby Engine
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 1ø, 60Hz, Grounded Duplex Receptacle
O) 115V Alarm Light In Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply
Q) 3KVA Stepdown Transformer



GENERAL NOTES:
1) ALL RACEWAYS TO BE RUN UNDERGROUND.
2) ALL EQUIPMENT TO BE NEMA-3R.
3) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL)

BLOCK DIAGRAM

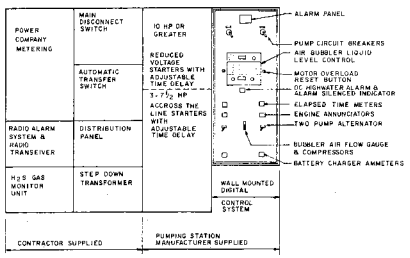




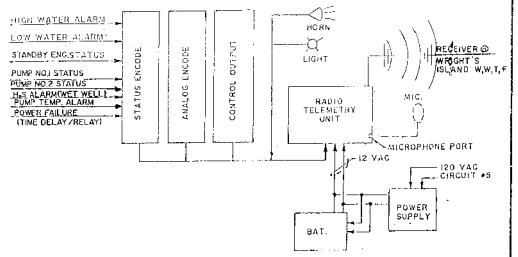
LOCUS PLAN
SCALE: 1" = 1000'

CIRCUITS

No.	DESCRIPTION	AMPS	VOLTS	PHASE
①	STATION HEATER	15	120	1
②	H2S MONITOR	15	120	1
③	RECEPTACLE w/GROUND FAULT	15	120	1
④	STBY.ENG. BATTERY CHARGER	15	120	1
⑤	ALARM LIGHTS	15	120	1
⑥	SPARE			
⑦	RADIO TELEMETRY & LAPSE TIME METER	15	120	1
⑧	STATION VENTILATOR BLOWER	15	120	1
⑨	HAND HELD LIGHT	15	120	1
⑩	STATION LIGHTS	15	120	1
⑪	STATION LIGHTS	15	120	1
⑫	SPARE			



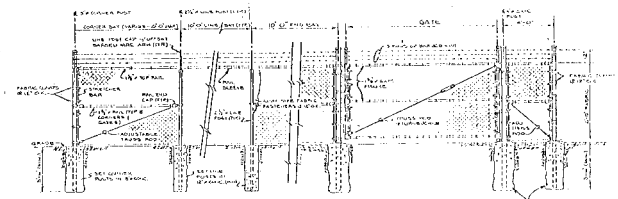
LAYOUT OF MOTOR CONTROL CABINETS
NO SCALE



REMOTE TRANSMITTER RECEIVER

PLAN VIEW LEGEND

① PUMP MOTOR (TYP. 2)
② PUMP (TYP. 2)
③ 4"ø FULL FLOW SWING CHECK VALVE (TYP. 2)
④ 4"ø 3-WAY PLUG VALVE
⑤ 150 WHPS LIGHT, AUTO ELEC SWITCH
⑥ 4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
⑦ 4ø D.I. FLG. GATE VALVE (TYP.)
⑧ 4"X4"X4"ø D.I. FLG. TEE.
⑨ GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
⑩ FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
⑪ NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER



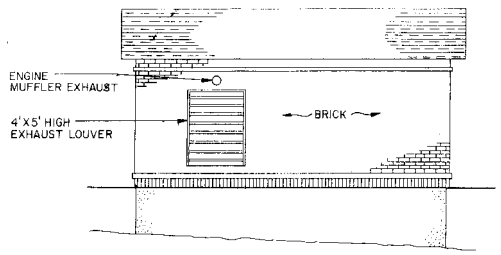
TYPICAL FENCE DETAIL
NO SCALE

1	GENERAL REVISION	WK	11/94	JEC	BHJ	11/94
0	EM	3/94	JEC	EM	BHJ	3/94
MARK NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

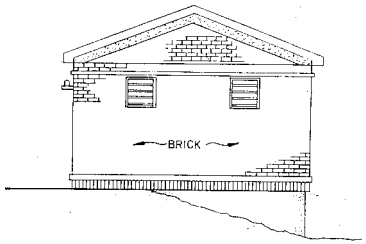
PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE
RILEY ROAD PUMP STATION
PUMP STATION DETAILS
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

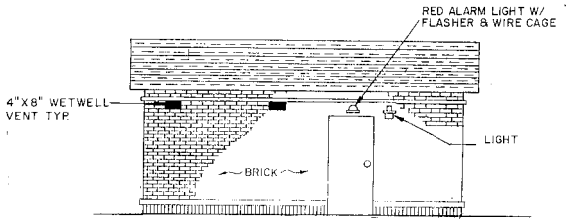
JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 47 OF 60



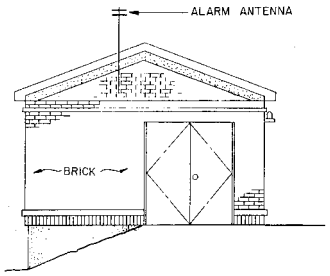
NORTH ELEVATION



EAST ELEVATION



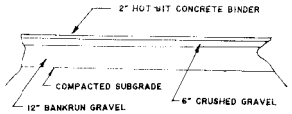
SOUTH ELEVATION



WEST ELEVATION

ARCHITECTURAL ELEVATION

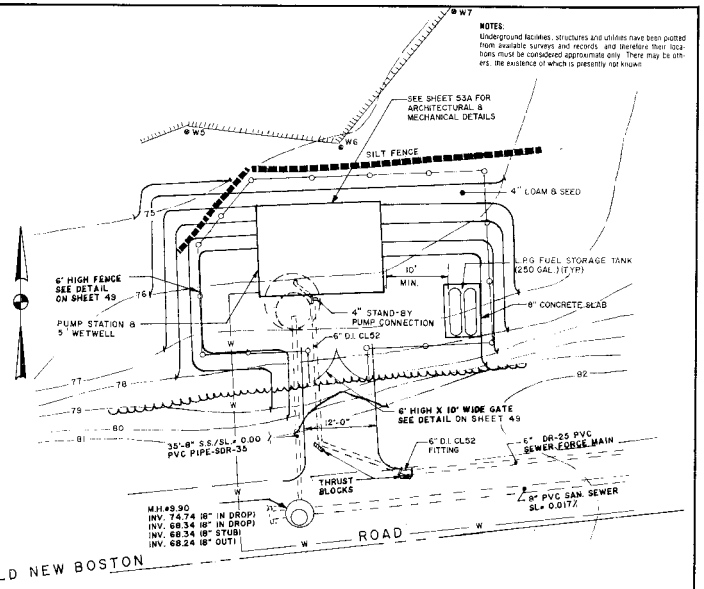
SCALE: 1/4"=1'-0"



PER N.H. DOT SPECIFICATIONS

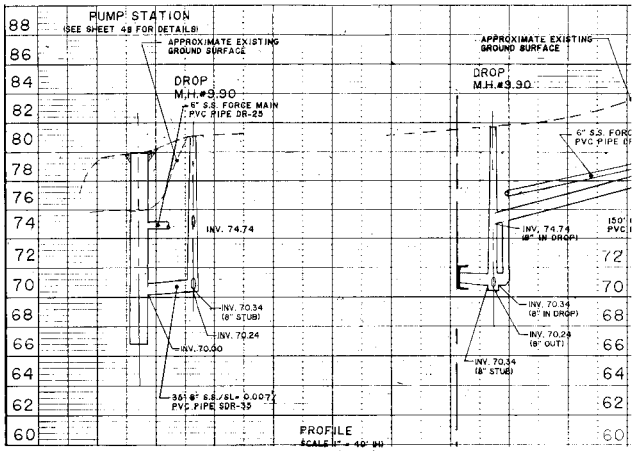
TYPICAL DRIVEWAY CROSS SECTION

N.T.S.


NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.
SEE SHEET 53A FOR ARCHITECTURAL & MECHANICAL DETAILS
SILT FENCE
4" LOAM & SEED
6' HIGH FENCE SEE DETAIL ON SHEET 49
PUMP STATION & 5' WETWELL
4" STAND-BY PUMP CONNECTION
6" DI. CL52
LPG FUEL STORAGE TANK (250 GAL.) (TYP)
8" CONCRETE SLAB
6' HIGH X 10' WIDE GATE SEE DETAIL ON SHEET 49
35'-8" S.S./SL= 0.00 PVC PIPE-SDR-35
6" DI. CL52 FITTING
6" DR-25 PVC SEWER FORCE MAIN
THRUST BLOCKS
8" PVC SAN. SEWER SL= 0.017
M.H.#9.90
INV. 74.74 (8" IN DROP)
INV. 68.34 (8" IN DROP)
INV. 68.34 (8" STUB)
INV. 68.24 (8" OUT)
ROAD
OLD NEW BOSTON

OLD NEW BOSTON ROAD
SITE PLAN

SCALE: 1"=10'



PROFILE

SCALE: 1" = 40' (H)
1" = 4' (V)

GENERAL REVISIONS

NO.	BY	DATE	DRAWN	CHECKED	ENGINEER	APPROVED	DATE
1	WK	11/94	EM	JEC	BHJ	BHJ	11/94
0	ISSUED FOR APPROVAL		EM	JEC	BHJ	BHJ	2/94

PROJECT SURVEYOR: BRADFORD JONES NO. 331 REGISTERED PROFESSIONAL ENGINEER — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

OLD NEW BOSTON ROAD PUMP STATION

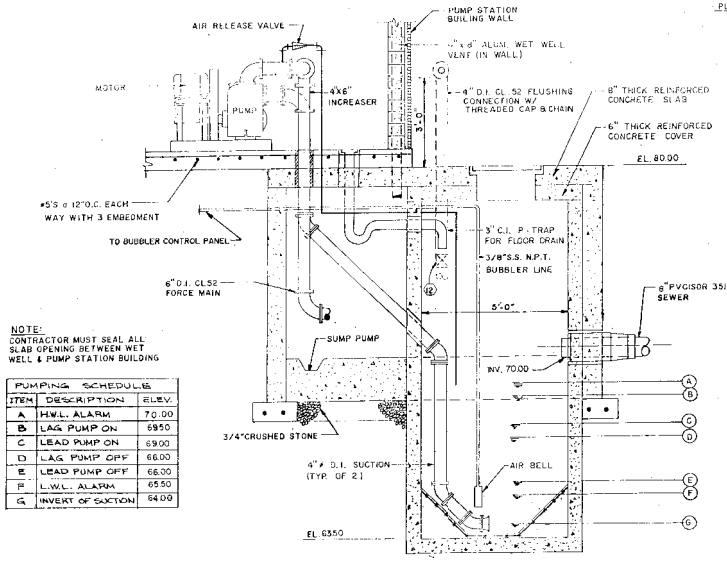
SITE PLAN AND DETAILS

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 48 OF 60



NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENING BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	70.00
B	LAG PUMP ON	69.50
C	LEAD PUMP ON	69.00
D	LAG PUMP OFF	66.00
E	LEAD PUMP OFF	66.00
F	L.W.L. ALARM	65.50
G	INVERT OF SUCTION	64.00

SECTION A-A

NO SCALE

PUMP STATION DESIGN

CONDITIONS OF SERVICE

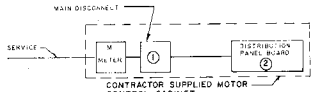
200 G.P.M. AT 45.34 ft. TDH

PUMPING EQUIPMENT

(2) - GORMAN RUPP, 10 H.P. PUMPS, MOD. # T4A-B 4" x 4", SELF-PRIMING, SUCTION LIFT PUMPS, w/ 9 3/4" IMPELLER, 1200 R.P.M. POWER-480 VOLTS/3 PHASE/60 Hz/4 WIRE

PUMP STATION CONTROL EQUIPMENT

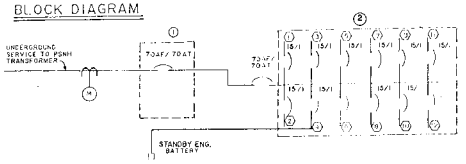
A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotameter
E) Alarm Horn & Silencer
F) Pump Volsta Heaters
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) 30,000 BTU Station Heater and Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) **Standby Level Control** For Switching Power Source From Power Company To **Standby Engine**
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 1ø, 60Hz, Grounded Duplex Receptacle
O) 115V Alarm Light in Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply
Q) 3KVA Stepdown Transformer

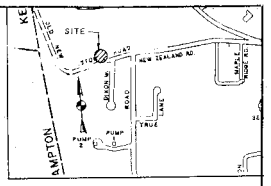


GENERAL NOTES:

1) ALL RACEWAYS TO BE RUN UNDERGROUND.
2) ALL EQUIPMENT TO BE NEMA-3R.
3) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL).

BLOCK DIAGRAM

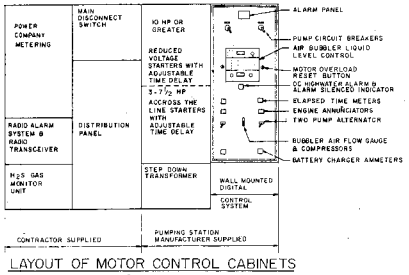




LOCUS PLAN

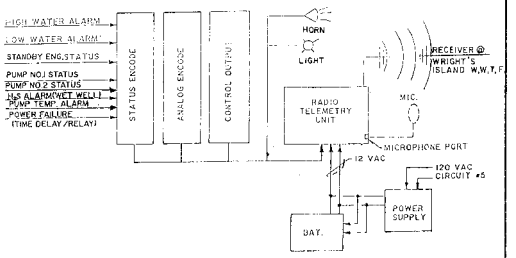
CIRCUITS

No.	DESCRIPTION	AMPS	VOLTS	WIRE
(C)	STATION HEATER	15	120	1
(D)	H_2S MONITOR	15	120	1
(A)	RECEPTACLE w/GROUND FAULT	15	120	1
(B)	STDBYENG. BATTERY CHARGER	15	12	1
(E)	ALARM LIGHTS	15	120	1
(F)	SPARE			
(G)	RADIO TELEMETRY & LAPSE TIME METER	15	120	1
(H)	STATION VENTILATOR BLOWER	15	120	1
(I)	HAND HELD LIGHT	15	120	1
(J)	STATION LIGHTS	15	120	1
(K)	STATION LIGHTS	15	120	1
(L)	SPARE			


POWER COMPANY METERING
MAIN DISCONNECT SWITCH
10 HP OR GREATER
REDUCED VOLTAGE STARTERS WITH ADJUSTABLE TIME DELAY
3-7½ HP
ACROSS THE LINE STARTERS WITH ADJUSTABLE TIME DELAY
RADIO ALARM SYSTEM @ RADIO TRANSCEIVER
DISTRIBUTION PANEL
H_2S GAS MONITOR UNIT
STEP DOWN TRANSFORMER
WALL MOUNTED DIGITAL CONTROL SYSTEM
ALARM PANEL
PUMP CIRCUIT BREAKERS
AIR BUBBLER LIQUID LEVEL CONTROL
MOTOR OVERLOAD RESET BUTTON
OC HOWARTEX ALARM & ALARM SILENCED INDICATOR
ELAPSED TIME METERS
ENGINE ANNUNCIATORS
TWO PUMP ALTERNATOR
BUBBLER AIR FLOW GAUGE & COMPRESSORS
BATTERY CHARGER AMMETERS
CONTRACTOR SUPPLIED
PUMPING STATION MANUFACTURER SUPPLIED

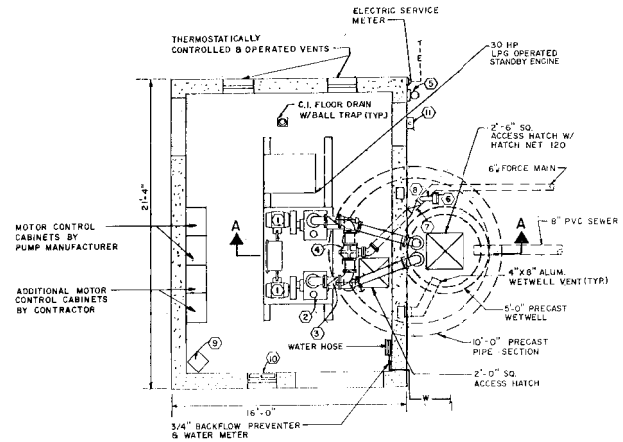
LAYOUT OF MOTOR CONTROL CABINETS

NO SCALE



RECEIVER @ WRIGHT'S ISLAND W,W,T,F

REMOTE TRANSMITTER RECEIVER

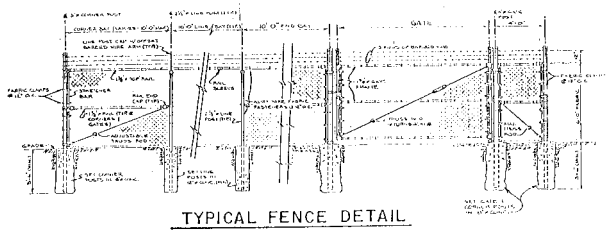

ELECTRIC SERVICE METER
THERMOSTATICALLY CONTROLLED & OPERATED VENTS
30 HP LPG OPERATED STANDBY ENGINE
C.I. FLOOR DRAIN W/BALL TRAP (TYP.)
2'-6" SQ. ACCESS HATCH W/ HATCH NET 120
6" FORCE MAIN
8" PVC SEWER
MOTOR CONTROL CABINETS BY PUMP MANUFACTURER
ADDITIONAL MOTOR CONTROL CABINETS BY CONTRACTOR
4"X8" ALUM. WETWELL VENT (TYP.)
5'-0" PRECAST WETWELL
WATER HOSE
10'-0" PRECAST PIPE SECTION
2'-0" SQ. ACCESS HATCH
21'-4"
16'-0"
3/4" BACKFLOW PREVENTER & WATER METER

PLAN - PUMPING STATION & AUTOSTART

SCALE: 1/4" = 1'-0"

PLAN VIEW LEGEND

1. PUMP MOTOR (TYP.2)
2. PUMP (TYP.2)
3. 4"ø FULL FLOW SWING CHECK VALVE (TYP.2)
4. 4"ø 3-WAY PLUG VALVE
5. 150 WHPS LIGHT, AUTO ELEC SWITCH
6. 4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
7. 6"ø D.I. FLG. GATE VALVE
8. 6"X6"X4"øD.I. FLG. TEE.
9. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
10. FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER
12. 4" D.I. FLG. GATE VALVE



TYPICAL FENCE DETAIL

NO SCALE

GENERAL REVISIONS					
1	EM	11/94	JEC	BHJ	BHJ	11/94
0	ISSUED FOR APPROVAL					
	EM	2/94	JEC	BHJ	BHJ	2/94
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

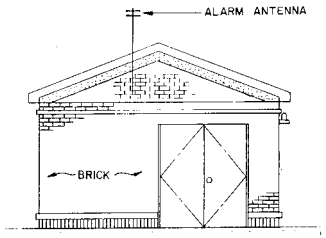
TOWN OF SEABROOK, NEW HAMPSHIRE

OLD NEW BOSTON ROAD PUMP STATION

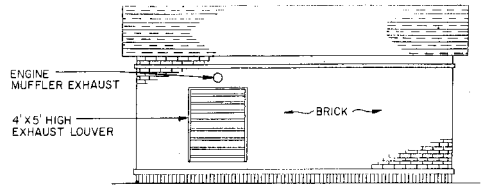
PUMP STATION DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

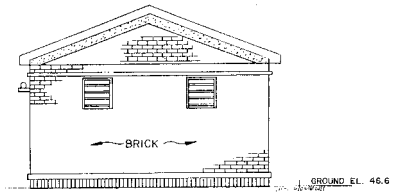
JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 49 OF 60



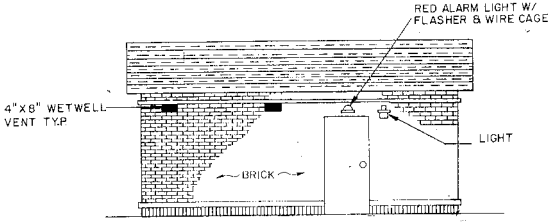
NORTH ELEVATION



EAST ELEVATION



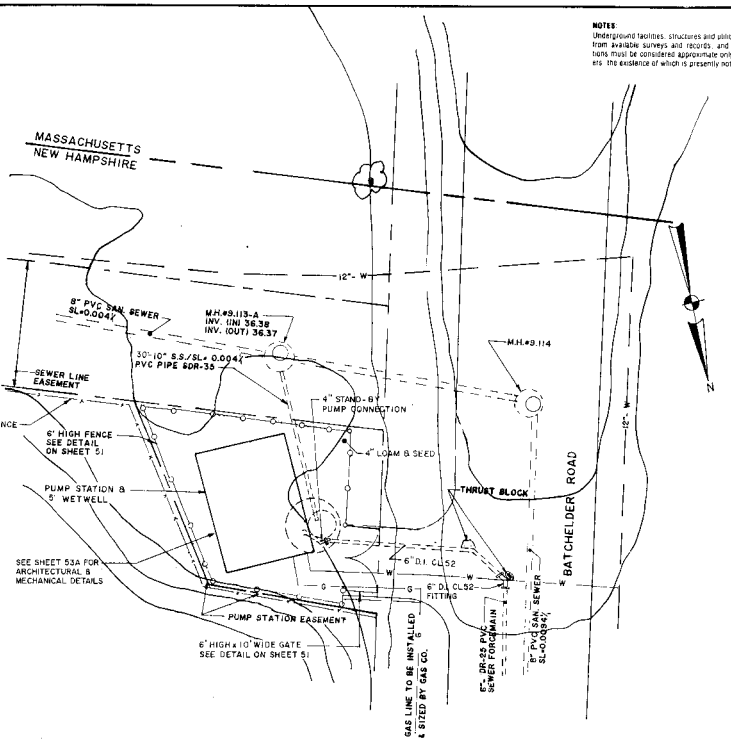
SOUTH ELEVATION



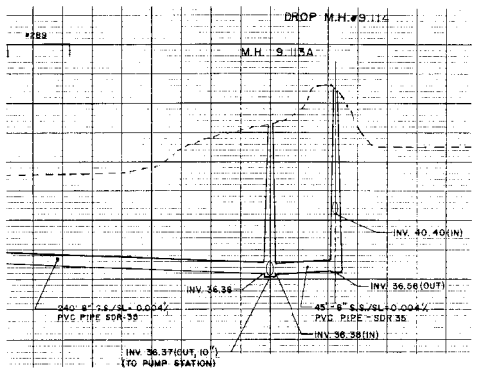
WEST ELEVATION

ARCHITECTURAL ELEVATIONS
SCALE: 1/4" = 1'

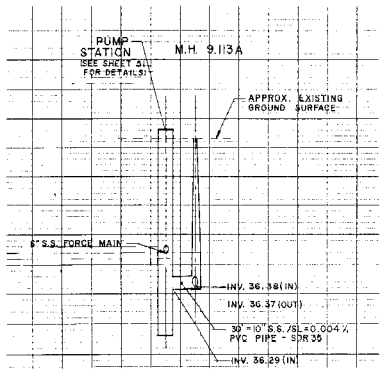
NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others the existence of which is presently not known.

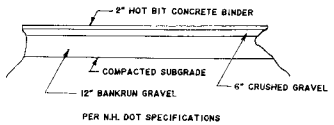

MASSACHUSETTS
NEW HAMPSHIRE
12"- W
8" PVC SAN SEWER SL=0.004'
M.H.#9.113-A INV. (IN) 36.38 INV. (OUT) 36.37
30"-10" S.S./SL= 0.004' PVC PIPE SDR-35
M.H.#9.114
SEWER LINE EASEMENT
SILT FENCE
6' HIGH FENCE SEE DETAIL ON SHEET 5
4" STAND-BY PUMP CONNECTION
4" LOAM & SEED
PUMP STATION & 5' WETWELL
THRUST BLOCK
BATCHELDER ROAD
SEE SHEET 5A FOR ARCHITECTURAL & MECHANICAL DETAILS
6" D.I. CL52
6" D.I. CL52 FITTING
PUMP STATION EASEMENT
6' HIGH x 10' WIDE GATE SEE DETAIL ON SHEET 5
GAS LINE TO BE INSTALLED & SIZED BY GAS CO.
8" PVC SAN SEWER SL=0.0034'
8" SDR-26 PVC SEWER FORCEMAIN
N

FOLLY MILL ROAD PUMP STATION
SITE PLAN
SCALE 1" = 10'



PROFILE
SCALE: 1" = 40' (H)
1" = 4' (V)





TYPICAL DRIVEWAY CROSS SECTION

N.T.S.

THE STATE OF NEW HAMPSHIRE — SHADFORD — NO. 5316 — REGISTERED PROFESSIONAL ENGINEER

NO.	GENERAL REVISIONS	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	WK	11/94	JEC		BHJ	BHJ	11/94
0	ISSUED FOR APPROVAL	EM	11/93				

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

FOLLY MILL ROAD PUMP STATION

SITE PLAN AND DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 50 OF 60

PUMP STATION DESIGN

CONDITIONS OF SERVICE

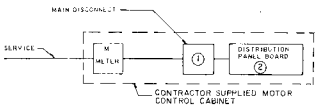
225 G.P.M. AT 50.69 ft. TDH

PUMPING EQUIPMENT

(2) - GORMAN RUPP, 10 H.P. PUMPS, MOD. # T4A-B 4" x 4", SELF-PRIMING SUCTION LIFT PUMPS, w/ 9 3/4" IMPELLER, 1325 R.P.M. POWER- 460 VOLT/3 PHASE/60 Hz/4 WIRE

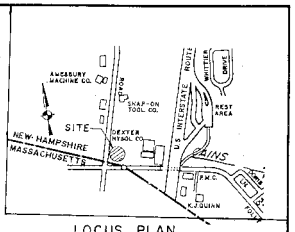
PUMP STATION CONTROL EQUIPMENT

A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubb er System w/ (2) Air Compressors
D) Air Flow Rotameter
E) Alarm Horn & Silencer
F) Pump Volute Heaters
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) 30,000 BTU Gas Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Headlight w/ Grounded Plug
L) Standby Level Control For Switching Power Source from Power Company To Standby Engine
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 10, 60Hz, Grounded Duplex Receptacle
O) 115V Alarm Light In Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply
Q) 3KVA Stepdown Transformer



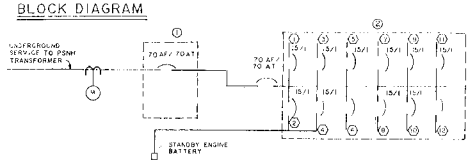
GENERAL NOTES

1) ALL RACEWAYS TO RUN UNDERGROUND
2) ALL EQUIPMENT TO BE NEMA-3R
3) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL).



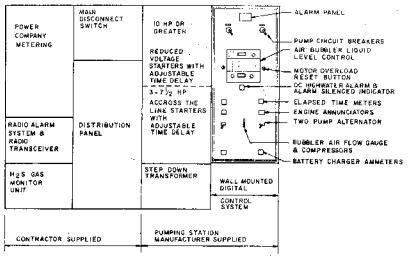
LOCUS PLAN

BLOCK DIAGRAM

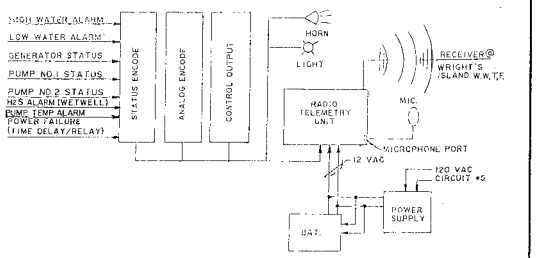


CIRCUITS

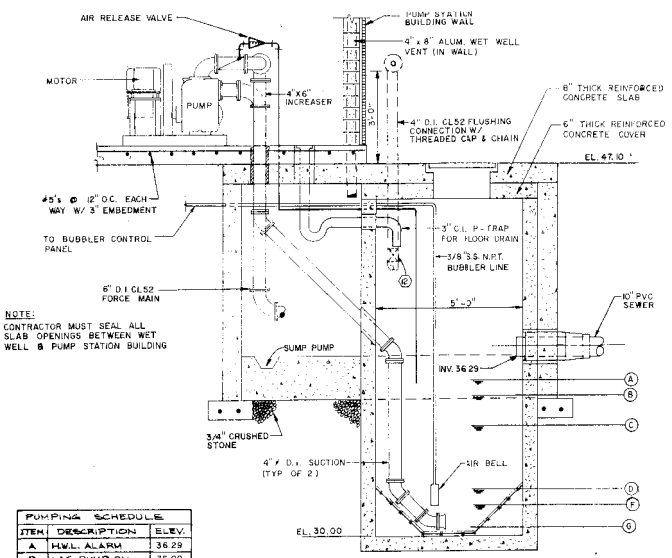
Nr.	DESCRIPTION	AMPS	VOLTS	PHASE
1	STATION HEATER	15	120	1
2	H_2S MONITOR	15	120	1
3	RECEPTACLE w/GROUND FAULT	15	120	1
4	STBY.ENG. BATTERY CHARGER	15	120	1
5	ALARM LIGHTS	15	120	1
6	SPARE			
7	RADIO TELEMETRY & LAPSE TIME METER	15	120	1
8	STATION VENTILATOR BLOWER	15	120	1
9	HAND HELD LIGHT	15	120	1
10	STATION LIGHTS	15	120	1
11	STATION LIGHTS	15	120	1
12	SPARE			


POWER COMPANY METERING
MAIN DISCONNECT SWITCH
10 HP OR GREATER
REDUCED VOLTAGE STARTERS WITH ADJUSTABLE TIME DELAY
3-7½ HP ACCROSS THE LINE STARTERS WITH ADJUSTABLE TIME DELAY
RADIO ALARM SYSTEM & RADIO TRANSCEIVER
DISTRIBUTION PANEL
H_2S GAS MONITOR UNIT
STEP DOWN TRANSFORMER
WALL MOUNTED DIGITAL CONTROL SYSTEM
ALARM PANEL
PUMP CIRCUIT BREAKERS
AIR BUBBLER LIQUID LEVEL CONTROL
MOTOR OVERLOAD RESET BUTTON
DC VOLTMETER & ALARM & ALARM SILENCED INDICATOR
ELAPSED TIME METERS
ENGINE ANNUNCIATORS
TWO PUMP ALTERNATOR
BUBBLER AIR FLOW GAUGE & COMPRESSORS
BATTERY CHARGER AMMETERS
CONTRACTOR SUPPLIED
PUMPING STATION MANUFACTURER SUPPLIED

LAYOUT OF MOTOR CONTROL CABINETS
NO SCALE



REMOTE TRANSMITTER RECEIVER

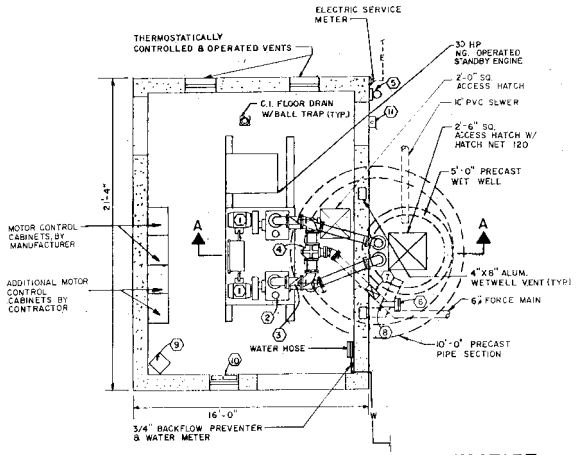


NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	36.29
B	LAG PUMP ON	36.00
C	LEAD PUMP ON	35.50
D	LAG PUMP OFF	32.50
E	LEAD PUMP OFF	32.50
F	L.W.L. ALARM	32.00
G	INVERT OF SUCTION	30.50

SECTION A-A

SCALE: NONE

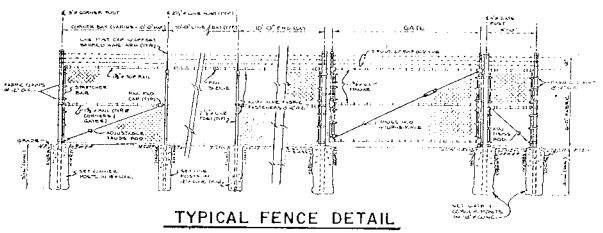

ELECTRIC SERVICE METER
THERMOSTATICALLY CONTROLLED & OPERATED VENTS
30 HP NG. OPERATED STANDBY ENGINE
2'-0" SQ. ACCESS HATCH
10" PVC SEWER
C.I. FLOOR DRAIN W/ BALL TRAP (TYP.)
2'-6" SQ. ACCESS HATCH W/ HATCH NET 120
5'-0" PRECAST WET WELL
21'-4"
MOTOR CONTROL CABINETS, BY MANUFACTURER
ADDITIONAL MOTOR CONTROL CABINETS BY CONTRACTOR
A
A
4"X8" ALUM. WETWELL VENT (TYP.)
6" ø FORCE MAIN
WATER HOSE
10'-0" PRECAST PIPE SECTION
16'-0"
3/4" BACKFLOW PREVENTER & WATER METER

PLAN - PUMPING STATION & AUTOSTART

SCALE: 1/4" = 1'-0"

PLAN VIEW LEGEND

1. PUMP MOTOR (TYP.2)
2. PUMP (TYP.2)
3. 4"ø FULL FLOW SWING CHECK VALVE (TYP.2)
4. 4"ø 3-WAY PLUG VALVE
5. 150 WHPS LIGHT, AUTO ELEC. SWITCH
6. 4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
7. 6"ø D.I. FLG. GATE VALVE
8. 6"X6"X4"ø D.I. FLG. TEE.
9. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
10. FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER
12. 4" D.I. FLG. GATE VATE VALVE



TYPICAL FENCE DETAIL

NO SCALE

	GENERAL REVISION					
1	WK	11/94	JEC	BHJ	BHJ	11/94
0	ISSUED FOR APPROVAL					
	EM	11/93				
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

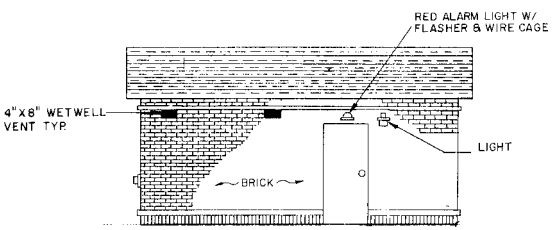
FOLLY MILL ROAD PUMP STATION

PUMP STATION DETAILS

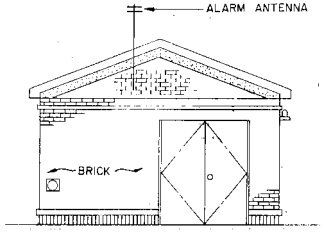
Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 51 OF 60

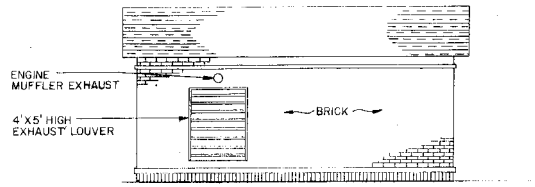
NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known



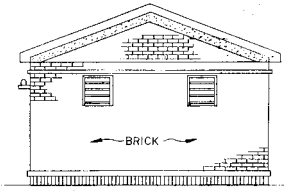
NORTH ELEVATION



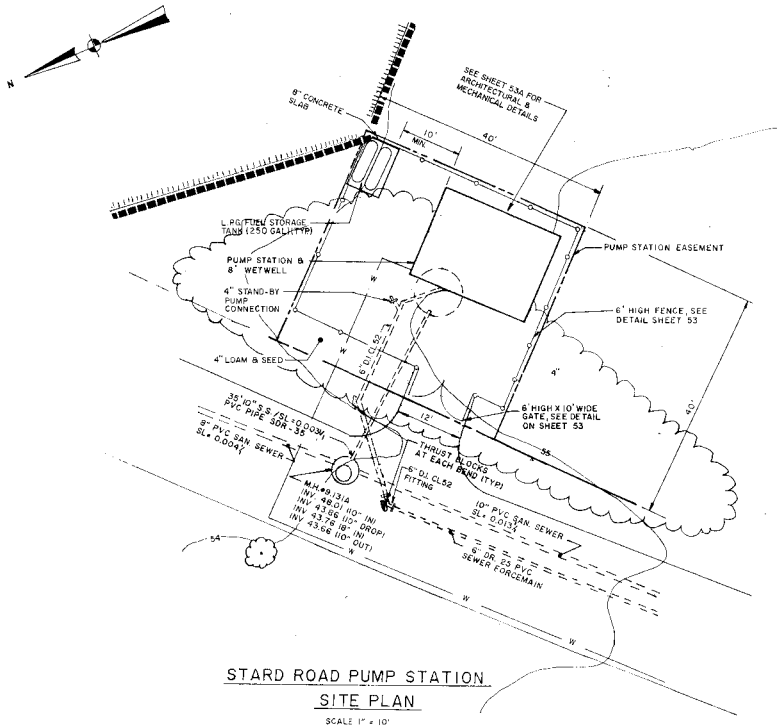
EAST ELEVATION



SOUTH ELEVATION

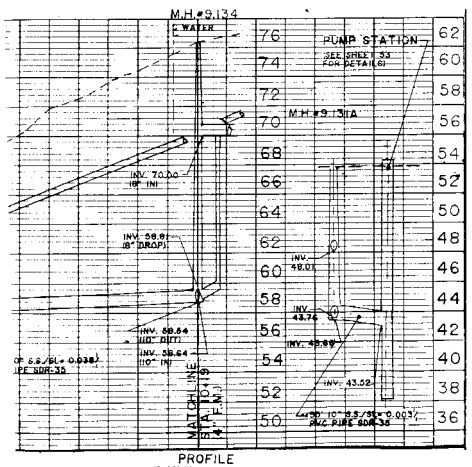


WEST ELEVATION

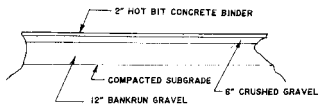

N
SEE SHEET 53A FOR ARCHITECTURAL & MECHANICAL DETAILS
8" CONCRETE SLAB
10' MIN.
40'
L.P.G. FUEL STORAGE TANK (250 GAL. TYP.)
PUMP STATION & 8' WETWELL
PUMP STATION EASEMENT
4" STAND-BY PUMP CONNECTION
6' HIGH FENCE, SEE DETAIL SHEET 53
4" LOAM & SEED
6' HIGH X 10' WIDE GATE, SEE DETAIL ON SHEET 53
35' 10" S.S. (SL=0.003) PVC PIPE SDR-35
8" PVC SAN. SEWER SL=0.004
THRUST BLOCKS AT EACH BEND (TYP.)
6" DI. CL52 FITTING
M.H.#9.13A INV.=48.01 (10" IN) INV.=43.86 (10" DROP) INV.=43.76 (8" IN) (10" OUT)
10" PVC SAN. SEWER SL=0.013
6" SR. 55 PVC SEWER FORCEMAIN
54
W

STARD ROAD PUMP STATION
SITE PLAN
SCALE 1" = 10'

ARCHITECTURAL ELEVATIONS
SCALE: 1/4" = 1'



PROFILE
1"=40' (H) & 1"=4' (V)



TYPICAL DRIVEWAY CROSS SECTION
N.T.S.

1	GENERAL REVISIONS	WK	11/94	JEC	BHJ	BHJ	11/94
0	ISSUED FOR APPROVAL	EM	11/93	JEC	BHJ	BHJ	10/94
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE
STARD ROAD PUMP STATION
SITE PLAN AND DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

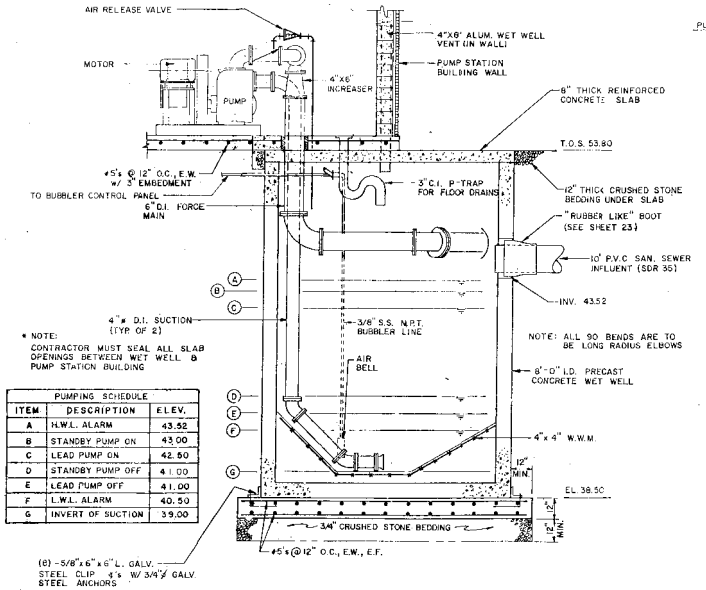
JOB NO. 1444/8704 | CONTRACT NO. IX | SHT. 52 OF 60

PUMP STATION DESIGN

CONDITIONS OF SERVICE:
225 G.P.M. AT 59.63 ft. TDH

PUMPING EQUIPMENT:
(2) - GORMAN-RUPP, 15 H.P. PUMPS, MOD. # T4A-B
4" x 4" SELF-PRIMING, SUCTION LIFT PUMPS, w/ 9 3/4" IMPELLER, 1425 R.P.M.
POWER- 480 VOLT/3 PHASE/60 Hz/4 WIRE

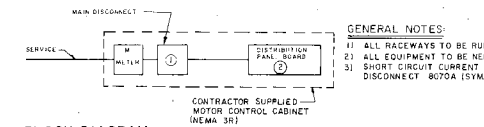
PUMP STATION CONTROL EQUIPMENT:
A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotometer
E) Alarm Horn & Silencer
F) Pump Volute Heaters
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) 1500/1500 Watt Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) Standby Lever Control For Switching Power Source from Power Company To Standby Engine.
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 1Ø, 60Hz, Grounded Duplex Receptacle
Ø) 115V Alarm Light In Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply
Q) 3KVA Stepdown Transformer


AIR RELEASE VALVE
MOTOR
PUMP
4"X6" INCREASER
4"X6" ALUM. WET WELL VENT.(IN WALL)
PUMP STATION BUILDING WALL
6" THICK REINFORCED CONCRETE SLAB
T.O.S. 53.80
#5's @ 12" O.C., E.W. w/ 3" EMBEDMENT
TO BUBBLER CONTROL PANEL
6" D.I. FORCE MAIN
3" C.I. P-TRAP FOR FLOOR DRAINS
12" THICK CRUSHED STONE BEDDING UNDER SLAB
"RUBBER LIKE" BOOT (SEE SHEET 23)
10" P.V.C. SAN. SEWER INFLUENT (SDR 35)
INV. 43.52
4" ø D.I. SUCTION (TYP. OF 2)
3/8" S.S. N.P.T. BUBBLER LINE
AIR BELL
NOTE: ALL 90 BENDS ARE TO BE LONG RADIUS ELBOWS
8'-0" I.D. PRECAST CONCRETE WET WELL
4"x 4" W.W.M.
12" MIN.
EL. 38.50
3/4" CRUSHED STONE BEDDING
12" MIN.
#5's@12" O.C., E.W., E.F.
(6) - 5/8"x6"x6" L. GALV. STEEL CLIP 4'-6" W/ 3/4" GALV. STEEL ANCHORS

* NOTE:
CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

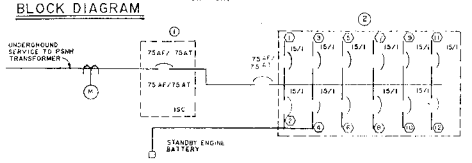
PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	43.52
B	STANDBY PUMP ON	43.00
C	LEAD PUMP ON	42.50
D	STANDBY PUMP OFF	41.00
E	LEAD PUMP OFF	41.00
F	L.W.L. ALARM	40.50
G	INVERT OF SUCTION	39.00

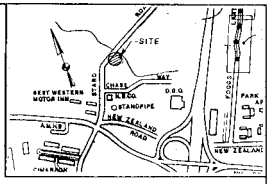
SECTION A-A
NO SCALE



GENERAL NOTES:
1) ALL RACEWAYS TO BE RUN UNDERGROUND.
2) ALL EQUIPMENT TO BE NEMA-3R.
3) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL)

BLOCK DIAGRAM

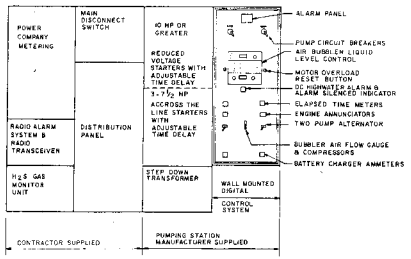




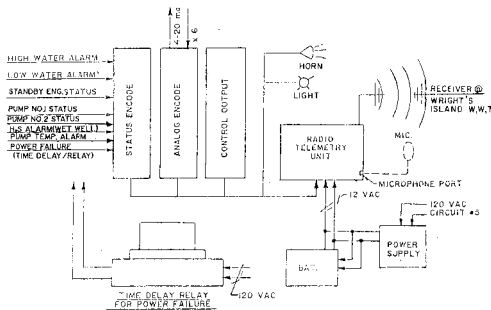
LOCUS PLAN
SCALE: 1" = 1000'

CIRCUITS

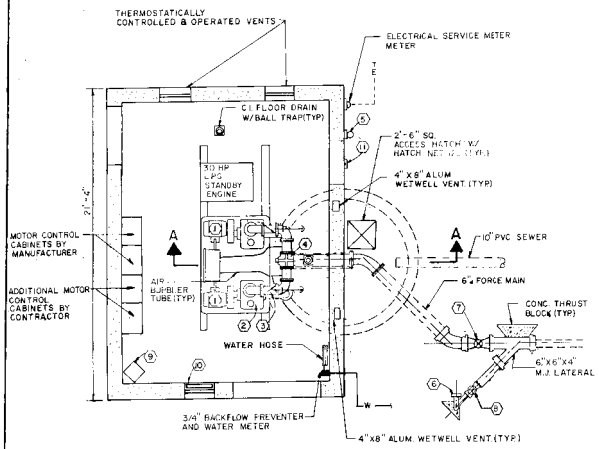
No.	DESCRIPTION	AMPS	VOLTS	PHASE
①	STATION HEATER	15	120	1
②	H_2S MONITOR	15	120	1
③	RECEPTACLE w/GROUND FAULT	15	120	1
④	GEN. SET BATTERY CHARGER	15	120	1
⑤	ALARM LIGHTS	15	120	1
⑥	SPARE			
⑦	RADIO TELEMETRY & LAPSE TIME METER	15	120	1
⑧	STATION VENTILATOR BLOWER	15	120	1
⑨	HAND HELD LIGHTS	15	120	1
⑩	STATION LIGHTS	5	120	1
⑪	STATION LIGHTS	15	120	1
⑫	SPARE			


POWER COMPANY METERING
MAIN DISCONNECT SWITCH
40 HP OR GREATER
REDUCED VOLTAGE STARTERS WITH ADJUSTABLE TIME DELAY
1-7½ HP ACCROSS THE LINE STARTERS WITH ADJUSTABLE TIME DELAY
RADIO ALARM SYSTEM & RADIO TRANSCEIVER
DISTRIBUTION PANEL
H_2S GAS MONITOR UNIT
STEP DOWN TRANSFORMER
ALARM PANEL
PUMP CIRCUIT BREAKERS
AIR BUBBLER LIQUID LEVEL CONTROL
MOTOR OVERLOAD RESET BUTTON
DC HORNGATER ALARM & ALARM SILENCED INDICATOR
ELAPSED TIME METERS
ENGINE ANNUNCIATORS
TWO PUMP ALTERNATOR
BUBBLER AIR FLOW GAUGE & COMPRESSORS
BATTERY CHARGER AMMETERS
WALL MOUNTED DIGITAL CONTROL SYSTEM
CONTRACTOR SUPPLIED
PUMPING STATION MANUFACTURER SUPPLIED

LAYOUT OF MOTOR CONTROL CABINETS
NO SCALE



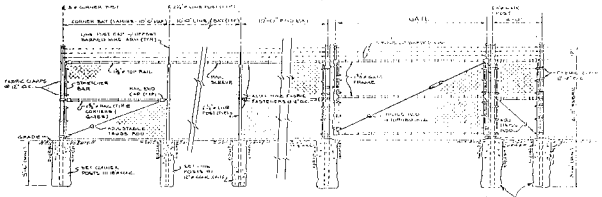
REMOTE TRANSMITTER RECEIVER


THERMOSTATICALLY CONTROLLED & OPERATED VENTS
ELECTRICAL SERVICE METER
METER
C.I. FLOOR DRAIN W/BALL TRAP(TYP)
2'-6" SQ. ACCESS HATCH W/ HATCH NET
50 HP LPG STANDBY ENGINE
4" X 8" ALUM WETWELL VENT.(TYP)
MOTOR CONTROL CABINETS BY MANUFACTURER
ADDITIONAL MOTOR CONTROL CABINETS BY CONTRACTOR
AIR BUBBLER TUBE(TYP)
10" PVC SEWER
6" FORCE MAIN
CONC. THRUST BLOCK (TYP)
WATER HOSE
6"X6"X4" M.J. LATERAL
3/4" BACKFLOW PREVENTER AND WATER METER
4"X8" ALUM. WETWELL VENT.(TYP)

PLAN - PUMPING STATION & AUTOSTART
SCALE: 1/4" = 1'-0"

PLAN VIEW LEGEND

1. PUMP MOTOR (TYP. 2)
2. PUMP (TYP 2)
3. 4"ø FULL FLOW SWING CHECK VALVE (TYP.2)
4. 4"ø 3-WAY PLUG VALVE
5. 150 WHPS LIGHT, AUTO ELEC. SWITCH
6. 4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
7. 6" D.I. FLG. GATE VALVE & BOX
8. 4" D.I. FLG. GATE VALVE & BOX
9. GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
10. FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
11. NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER



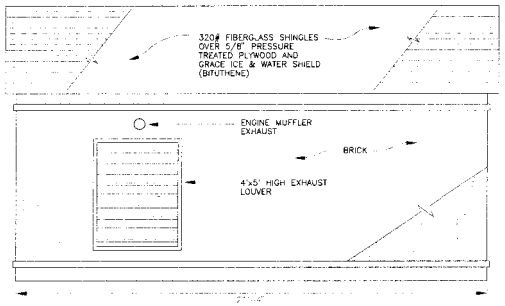
TYPICAL FENCE DETAIL
NO SCALE

NO.	DATE	REVISION
1	11/94	GENERAL REVISION
0	11/93	ISSUED FOR APPROVAL

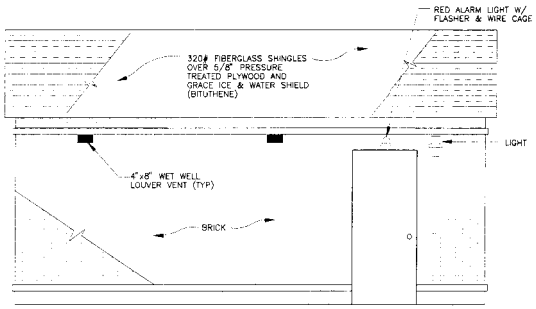
THE STATE OF NEW HAMPSHIRE — No. 2216 — REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE
STARD ROAD PUMP STATION
PUMP STATION DETAILS
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE
JOB NO. 1444/8704 | CONTRACT NO. IX | SHEET 53 OF 60

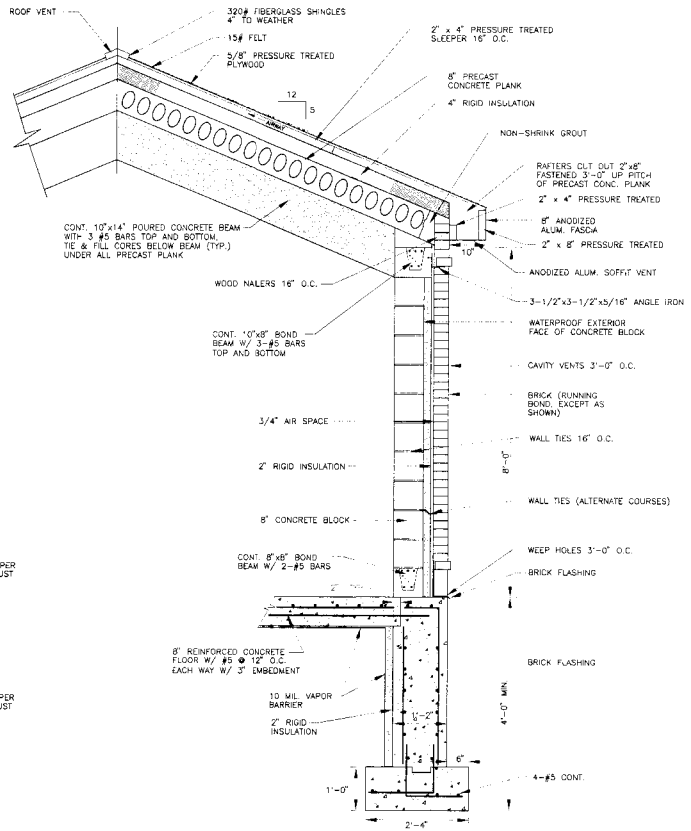
MARKPLACE P-5239


320# FIBERGLASS SHINGLES OVER 5/8" PRESSURE TREATED PLYWOOD AND GRACE ICE & WATER SHIELD (BITUTHENE)
ENGINE MUFFLER EXHAUST
BRICK
4'x5' HIGH EXHAUST LOUVER

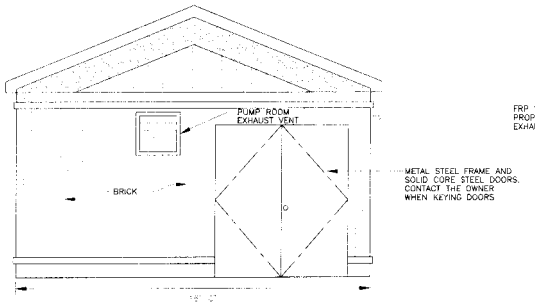
REAR
3/8" = 1'-0"


RED ALARM LIGHT W/ FLASHER & WIRE CAGE
320# FIBERGLASS SHINGLES OVER 5/8" PRESSURE TREATED PLYWOOD AND GRACE ICE & WATER SHIELD (BITUTHENE)
LIGHT
4"x8" WET WELL LOUVER VENT (TYP)
BRICK

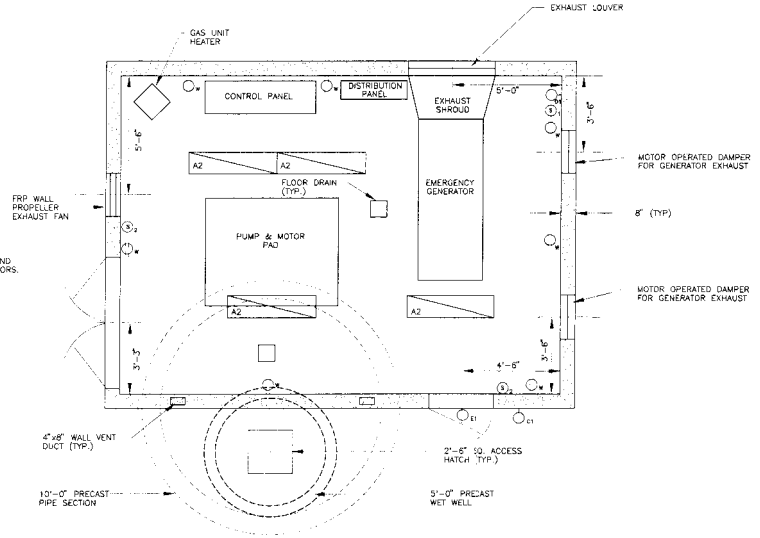
FRONT
3/8" = 1'-0"


ROOF VENT
320# FIBERGLASS SHINGLES 4" TO WEATHER
15# FELT
5/8" PRESSURE TREATED PLYWOOD
2" x 4" PRESSURE TREATED SLEEPER 16" O.C.
8" PRECAST CONCRETE PLANK
4" RIGID INSULATION
NON-SHRINK GROUT
RAFTERS CUT OUT 2"x8" FASTENED 3'-0" UP PITCH OF PRECAST CONC. PLANK
2" x 4" PRESSURE TREATED
8" ANODIZED ALUM. FASCIA
2" x 8" PRESSURE TREATED
ANODIZED ALUM. SOFFIT VENT
CONT. 10"x14" POURED CONCRETE BEAM WITH 3 #5 BARS TOP AND BOTTOM, TIE & FILL CORES BELOW BEAM (TYP.) UNDER ALL PRECAST PLANK
WOOD NAILERS 16" O.C.
3-1/2"x3-1/2"x5/16" ANGLE IRON
CONT. 10"x8" BOND BEAM W/ 3-#5 BARS TOP AND BOTTOM
WATERPROOF EXTERIOR FACE OF CONCRETE BLOCK
CAVITY VENTS 3'-0" O.C.
BRICK (RUNNING BOND, EXCEPT AS SHOWN)
3/4" AIR SPACE
WALL TIES 16" O.C.
2" RIGID INSULATION
WALL TIES (ALTERNATE COURSES)
8" CONCRETE BLOCK
CONT. 8"x8" BOND BEAM W/ 2-#5 BARS
WEEP HOLES 3'-0" O.C.
BRICK FLASHING
8" REINFORCED CONCRETE FLOOR W/ #5 @ 12" O.C. EACH WAY W/ 3" EMBEDMENT
BRICK FLASHING
10 MIL VAPOR BARRIER
2" RIGID INSULATION
4'-0" MIN.
4-#5 CONT.

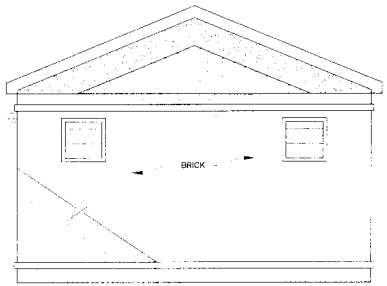
TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"



LT. SIDE
3/8" = 1'-0"



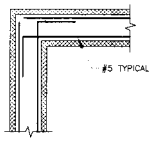
FLOOR PLAN
3/8" = 1'-0"



RT. SIDE
3/8" = 1'-0"

ELECTRICAL LEGEND

A2	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
C_1	35 WATT H.P.S., BRACKET MOUNTED WEATHER PROOF, VANDAL & CORROSION RESISTANT, PHOTOELEC ACTUATED
D_1	75 WATT H.P.S. WALL MTD., MOISTURE & CORROSION RESISTANT
E_1	100 WATT RED LAMP, WALL MOUNTED, WEATHER PROOF, VANDAL & CORROSION RESISTANT
S_1	SWITCH FOR DI LIGHT
S_2	3-WAY SWITCH FOR ALL A LIGHTS 2
W	DUPLEX RECEPTACLE, WEATHER PROOF



BOND BEAM CORNER REINFORCEMENT DETAIL
NOT TO SCALE

NOTES:

1. ROOF SHALL BE DESIGNED TO SUPPORT 100 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
2. FLOOR SHALL BE DESIGNED TO SUPPORT 300 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD
3. THE CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE

NO.	ISSUED FOR APPROVAL	DRT	10/94	JER	BMJ	BHJ	10/94
		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

PUMP STATION BUILDING

ARCHITECTURAL
MECHANICAL / ELECTRICAL
DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 144/8704 | CONTRACT NO. IX | SHEET 538 OF 60

SANITARY SEWER CONSTRUCTION

SEABROOK, NEW HAMPSHIRE

CONTRACT NO.10

1995

JONES & BEACH/STEARNS & WHEELER

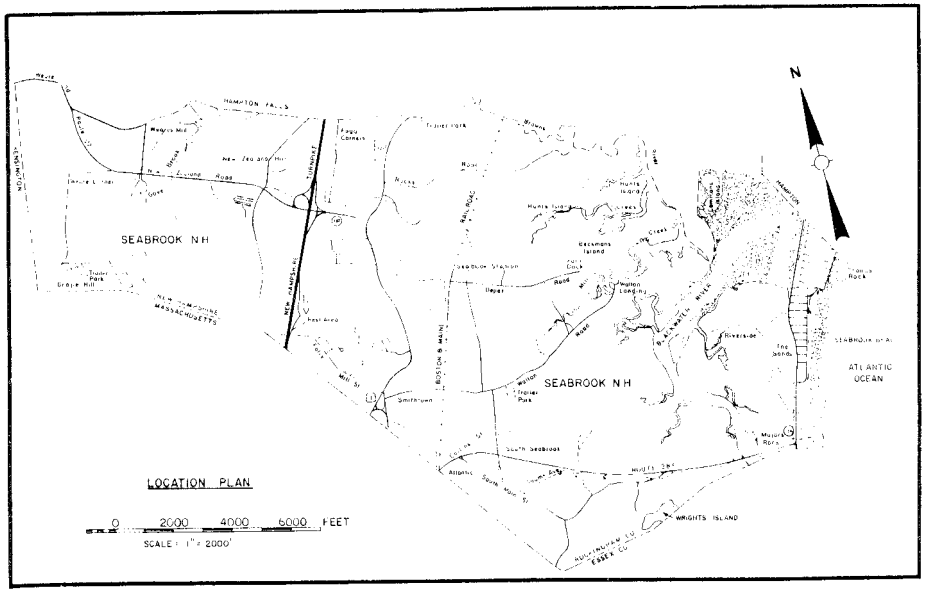
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

ABBREVIATIONS

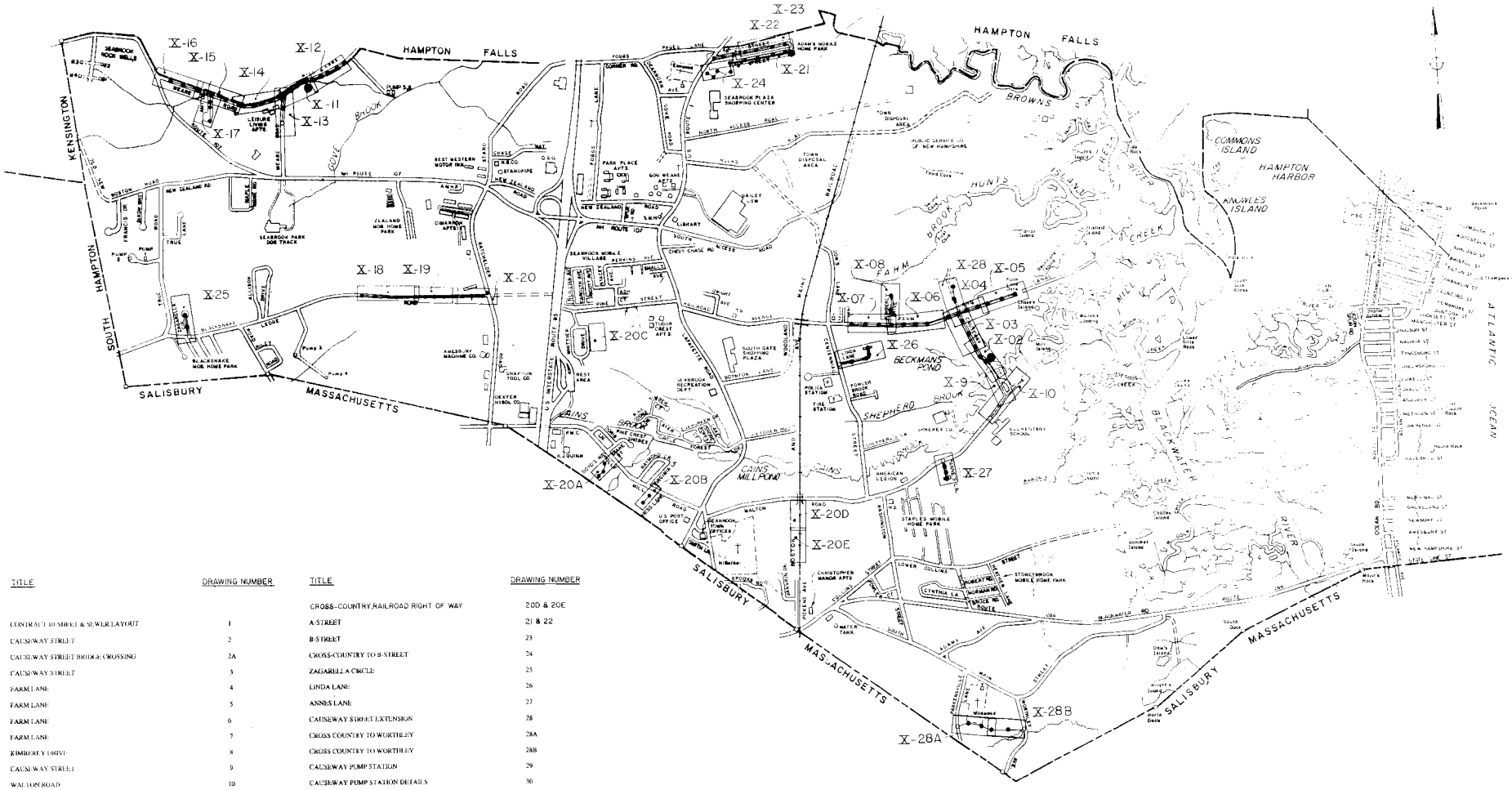
BENCHMARK	BM
BITUMINOUS	BIT
CAST IRON PIPE	CIP
CATCH BASIN	CB
CONCRETE	CONC
CORR. METAL PIPE	CMP
DRAIN	D
ELEVATION	EL
FENCE	FC
FIRST FLOOR	FF
FORCE MAIN	FM
GAS MAIN	G
GUIDE POST	GP
HYDRANT	HYD
INVERT	INV
IRON PIN	IP
LAMP POLE	LP
MANHOLE	MH
MONUMENT	MON
PERCENT GRADE	%
PERM. EASEMENT	PE
RIGHT OF WAY	ROW
SEWER	S
STONE	ST
SEWER MANHOLE	SMH
TEMP. EASEMENT	TE
WATER	W
WOOD	WD
WOVEN WIRE	WW
PROPERTY LINE	P
GRAVEL	GRAV

SELECTMEN
BURWELL PIKE CHAIRMAN
ASA H. KNOWLES JR.
OLIVER CARTER JR.
TOWN MANAGER E. RUSSELL BAILEY



LEGEND

NOT IN CONTRACT	N.I.C.
PROPOSED SANITARY SEWER WITH LATERAL	
EXISTING SANITARY SEWER WITH LATERAL	
SANITARY SEWER WITH PROFILE ON ANOTHER SHEET	
FORCE MAIN	
PUMP STATION (PROPOSED/EXISTING)	P.S. / P.S.
OCEAN OUTFALL WITH STATIONING	
MANHOLE (PROPOSED/EXISTING)	M.H. / M.H.
CATCH BASIN (PROPOSED/EXISTING)	C.B. / C.B.
CULVERT	
HYDRANT	HYD
WATER MAIN	W
WATER VALVE/WATER SERVICE	W.V. / W.S.
GAS MAIN	G
GAS VALVE/GAS SERVICE	G.V. / G.S.
UNDERGROUND TELEPHONE/ELECTRICAL	T / E
STREAM/BROOK	
POND/WET AREA	
RIVER	
WOODS AND/OR BRUSH LINE	
APPROXIMATE TOWN/STATE LINE	
APPROXIMATE RIGHT-OF-WAY LINE	
EXISTING CONTOUR	
PROPOSED CONTOUR	
LEDGE OUTCROP	
RETAINING WALL	
GUARD RAIL	
STONE WALL	
FENCE	
CONIFEROUS/DECIDUOUS TREE	
SHRUBS OR BUSH	
HOUSE OR BUILDING	
HOUSE NUMBER	
HOUSE WITH SEWER SERVICE	
UTILITY POLE	
LAMP POLE	L.P.
MAILBOX	M.B.
SIGN	
BASELINE CONTROL POINT	
PIPE INSULATION	
TEMPORARY FENCE (SILTATION)	



TITLE	DRAWING NUMBER
CONTRACT TO SHEET & SEWER LAYOUT	1
CAUSEWAY STREET	2
CAUSEWAY STREET BRIDGE CROSSING	2A
CAUSEWAY STREET	3
FARM LANE	4
FARM LANE	5
FARM LANE	6
FARM LANE	7
KIMBERLY DRIVE	8
CAUSEWAY STREET	9
WALTON ROAD	10
MILL LANE	11
MILL LANE	12
WEARE ROAD	13
WEARE ROAD	14
WEARE ROAD	15
WEARE ROAD	16
AMY DRIVE	17
LEDGE ROAD	18
LEDGE ROAD	19
LEDGE ROAD	20
BOYD'S WAY	20A
HESS LANE	20B
GREENLEAF DRIVE	20C

TITLE	DRAWING NUMBER
CROSS-COUNTRY, RAILROAD RIGHT OF WAY	20D & 20E
A-STREET	21 & 22
B-STREET	23
CROSS-COUNTRY TO B-STREET	24
ZAGARELLA CIRCLE	25
LINDA LANE	26
ANNES LANE	27
CAUSEWAY STREET EXTENSION	28
CROSS COUNTRY TO WORTHLEY	28A
CROSS COUNTRY TO WORTHLEY	28B
CAUSEWAY PUMP STATION	29
CAUSEWAY PUMP STATION DETAILS	30
MILL LANE PUMP STATION	31
MILL LANE PUMP STATION DETAILS	32
A-STREET PUMP STATION	33
A-STREET PUMP STATION DETAILS	34
PUMP STATION BUILDING	34A
EROSION CONTROL DETAILS	35
STANDARD MANHOLE DETAILS 1 OF 2	36
STANDARD MANHOLE DETAILS 2 OF 2	37
STANDARD TRENCH SECTIONS	38
MISCELLANEOUS DETAILS	39
HOUSE SERVICE DETAILS	40

TOWN OF SEABROOK, NEW HAMPSHIRE

CONTRACT # 10

SHEET & SEWER LAYOUT

Jones & Beach / Stearns & Wheler

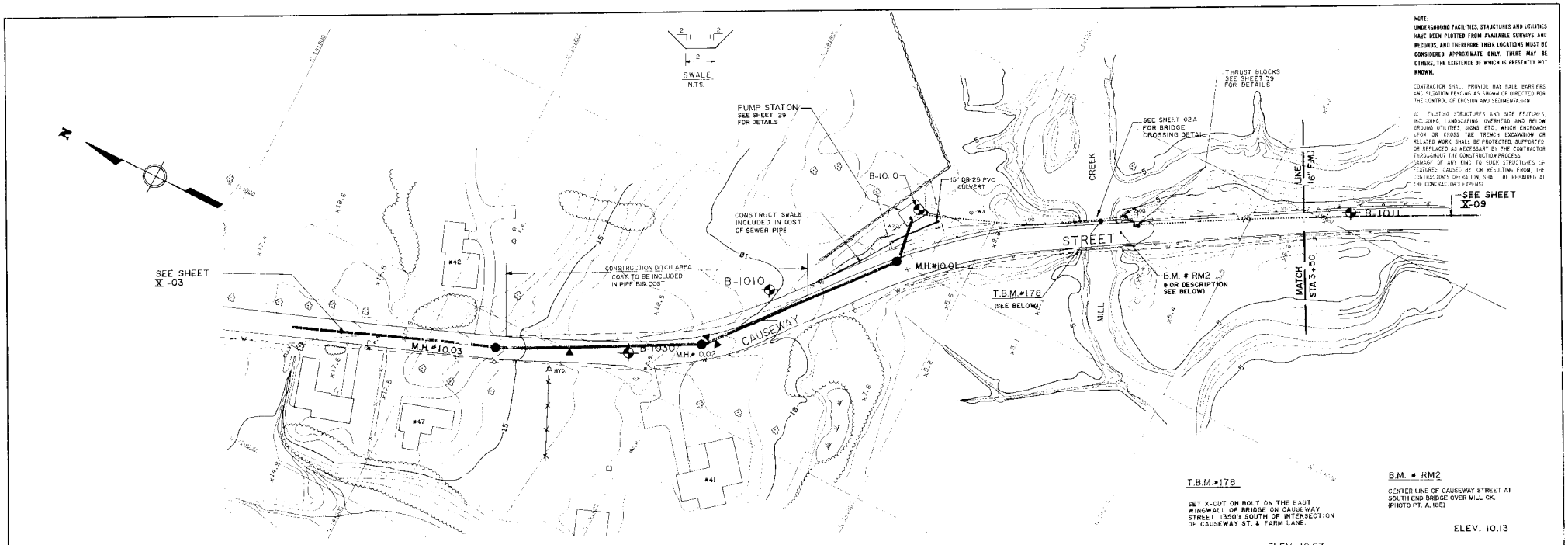
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM NEW HAMPSHIRE

NO.	GENERAL REVISIONS	DRAWN	DATE	CHECKED	DES. CHIEF	APPROVED	DATE
1	WK	2/95	JEC	BHJ	BHJ	2/95	
0	ISSUED FOR APPROVAL	WM	7/91	JAH	WM	BHJ	7/91

PROJECT SURVEYOR — APPROVED

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 1 OF 41



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC. WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

T.B.M.#178

SET X-CUT ON BOLT ON THE EAST WINGWALL OF BRIDGE ON CAUSEWAY STREET. 1350'± SOUTH OF INTERSECTION OF CAUSEWAY ST. & FARM LANE.

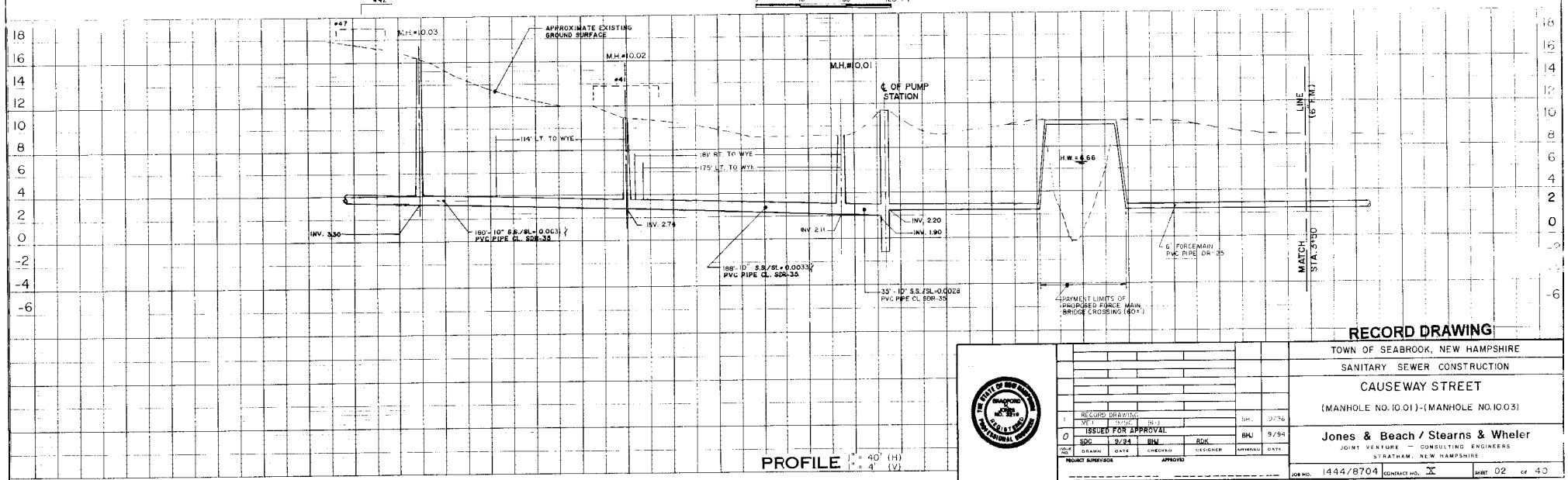
ELEV. 10.23

B.M. # RM2

CENTER LINE OF CAUSEWAY STREET AT SOUTH END BRIDGE OVER MILL CK. (PHOTO PT. A, 182).

ELEV. 10.13

PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.	RECORD DRAWING	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	AS BUILT					BM.	9/96
0	ISSUED FOR APPROVAL	SDC	9/94	BMJ	RDK	BMJ	9/94

PROJECT SUPERVISOR

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

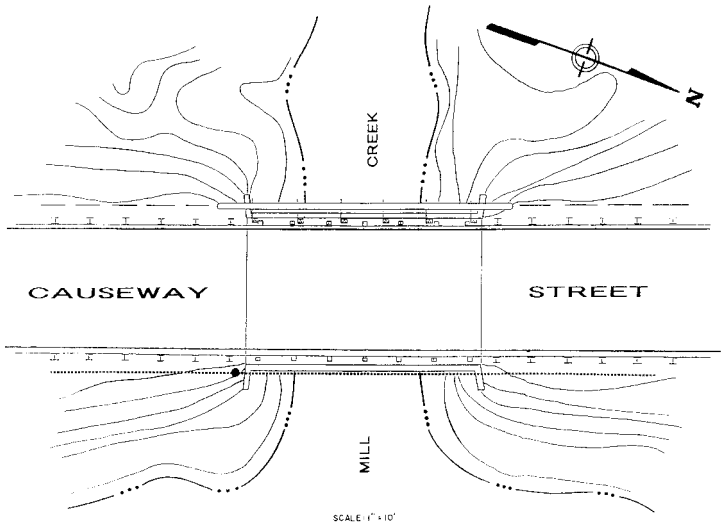
CAUSEWAY STREET

(MANHOLE NO. 10.01)-(MANHOLE NO. 10.03)

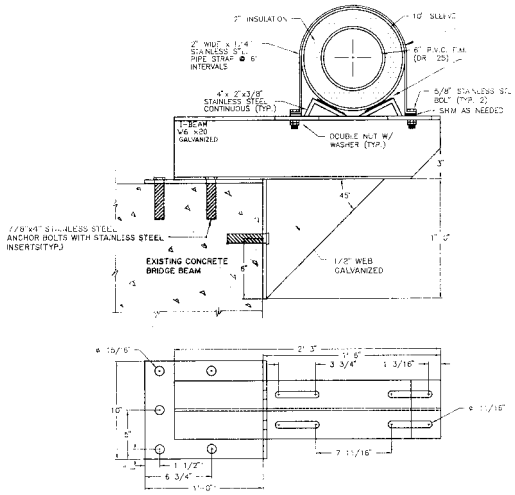
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 02 OF 40

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others the existence of which is presently not known



SCALE 1" = 10'

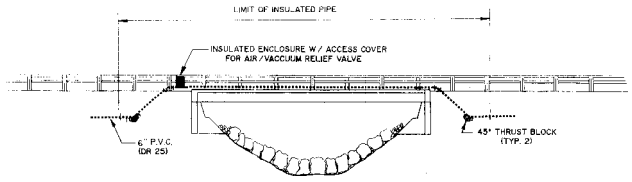


10" DUCTILE IRON PIPE WITH 6" P.V.C. DR25 COPP

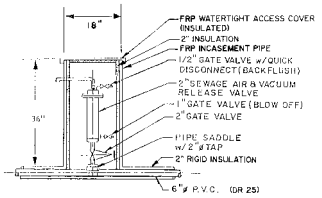
1/4" THICK RUBBER PAD (TYP)

1/8"x4" STAINLESS STEEL ANCHOR BOLTS WITH STAINLESS STEEL INSERTS(TYP.)

FABRICATED PIPE SUPPORT BRACKET
(SCALE: 1" = 6")



DOWNSTREAM-(OCEANSIDE)
(NO SCALE)



INSULATED ENCLOSURE W/ ACCESS COVER
FOR AIR/VACCUUM RELIEF VALVE
(NO SCALE)

1	GENERAL REVISIONS:					BHJ	2/95
	WK	2/95	JC		BHJ		
	ISSUED FOR APPROVAL						
0	SDC	1/95	BHJ		SDC	BHJ	1/95
MILL NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE	

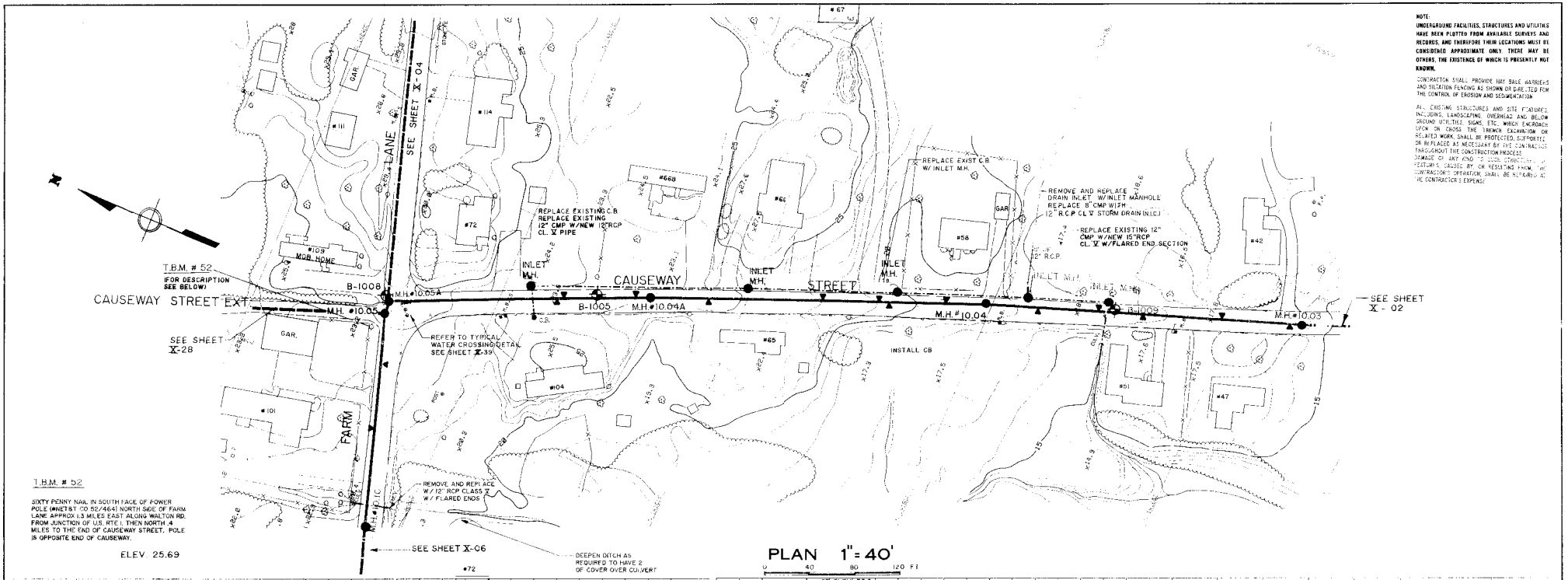
PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

MILL CREEK SEWER CROSSING AND BRIDGE DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 2A OF 40


CAUSEWAY STREET EXT
CAUSEWAY STREET
LANE
FARM
T.B.M. # 52
(FOR DESCRIPTION SEE BELOW)
SEE SHEET X-04
SEE SHEET X-28
SEE SHEET X - 02
SEE SHEET X-06
M.H. #10.05
M.H. #10.05A
M.H. #10.04
M.H. #10.04A
M.H. #10.03
B-1008
B-1005
B-1002
INLET M.H.
MOB. HOME
GAR.
REPLACE EXISTING C.B REPLACE EXISTING 12" CMP W/NEW 12"RCP CL. V PIPE
REPLACE EXIST C.B W/ INLET M.H.
REMOVE AND REPLACE DRAIN INLET W/INLET MANHOLE REPLACE 8" CMP WITH 12" R.C.P CL V STORM DRAIN IN I.C.)
REPLACE EXISTING 12" CMP W/NEW 15"RCP CL. V W/FLARED END SECTION
REFER TO TYPICAL WATER CROSSING DETAIL SEE SHEET X-39
INSTALL CB
REMOVE AND REPLACE W/ 12" RCP CLASS V W/ FLARED ENDS
DEEPEN DITCH AS REQUIRED TO HAVE 2' OF COVER OVER CULVERT
#101
#104
#105
#111
#114
#668
#72
#65
#58
#42
#47
#51
#67
T.B.M. # 52
SIXTY PENNY NAIL IN SOUTH FACE OF POWER POLE (#NET&T CO 52/464) NORTH SIDE OF FARM LANE APPROX 1.3 MILES EAST ALONG WALTON RD. FROM JUNCTION OF U.S. RTE 1, THEN NORTH .4 MILES TO THE END OF CAUSEWAY STREET; POLE IS OPPOSITE END OF CAUSEWAY.
ELEV. 25.69

PLAN 1" = 40'

0 40 80 120 FT

NOTE:
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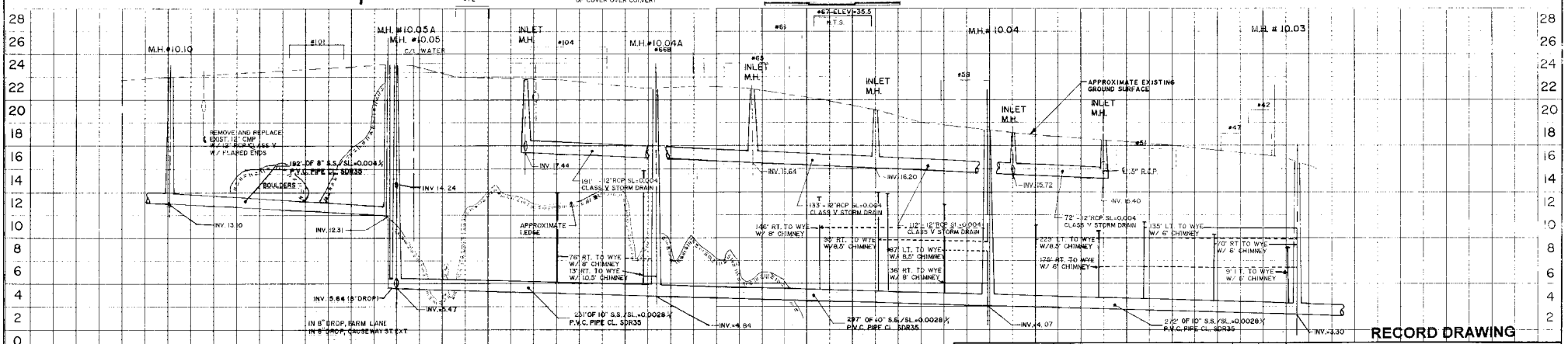

M.H. #10.10
M.H. #10.05A
M.H. #10.05
C/I WATER
INLET M.H.
M.H. #10.04A
M.H. #10.04
M.H. #10.03
#67-ELEV=35.5 M.T.S.
APPROXIMATE EXISTING GROUND SURFACE
REMOVE AND REPLACE EXIST. 12" CMP W/ 15" RCP CLASS V W/ FLARED ENDS
192' OF 8" S.S./SL=0.004 P.V.C. PIPE CL. SDR35
BOULDERS
INV. 13.10
INV. 14.24
INV. 12.31
INV. 17.44
191' - 12"RCP SL=0.004 CLASS V STORM DRAIN
APPROXIMATE LEDGE
INV. 15.64
INV. 16.20
INV. 15.72
INV. 10.40
133' - 8"RCP SL=0.004 CLASS V STORM DRAIN
72' - 12"RCP SL=0.004 CLASS V STORM DRAIN
12" - 12"RCP SL=0.004 CLASS V STORM DRAIN
15" R.C.P.
146' RT. TO WYE W/ 8" CHIMNEY
35' RT. TO WYE W/8.0" CHIMNEY
76' RT. TO WYE W/ 8" CHIMNEY
131' RT. TO WYE W/ 10.3" CHIMNEY
167' LT. TO WYE W/ 8.5" CHIMNEY
36' RT. TO WYE W/ 8" CHIMNEY
229' LT. TO WYE W/8.5" CHIMNEY
175' RT. TO WYE W/ 6" CHIMNEY
135' LT. TO WYE W/ 6" CHIMNEY
170' RT. TO WYE W/ 6" CHIMNEY
91' LT. TO WYE W/ 6" CHIMNEY
INV. 5.66 (5' DROP)
INV. 5.47
IN 8" DROP, FARM LANE IN 8" DROP, CAUSEWAY ST EXT
231' OF 10" S.S./SL=0.0028 P.V.C. PIPE CL. SDR35
INV. 4.84
297' OF 10" S.S./SL=0.0028 P.V.C. PIPE CL. SDR35
INV. 4.07
272' OF 10" S.S./SL=0.0028 P.V.C. PIPE CL. SDR35
INV. 3.30

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING	MEJ	6/96	BHJ		BHJ	6/96
0	ISSUED FOR APPROVAL	SDC	9/94	BHJ	RDK	BHJ	9/94

PROJECT SUPERVISOR _____ APPROVED _____

TOWN OF SEABROOK, NEW HAMPSHIRE

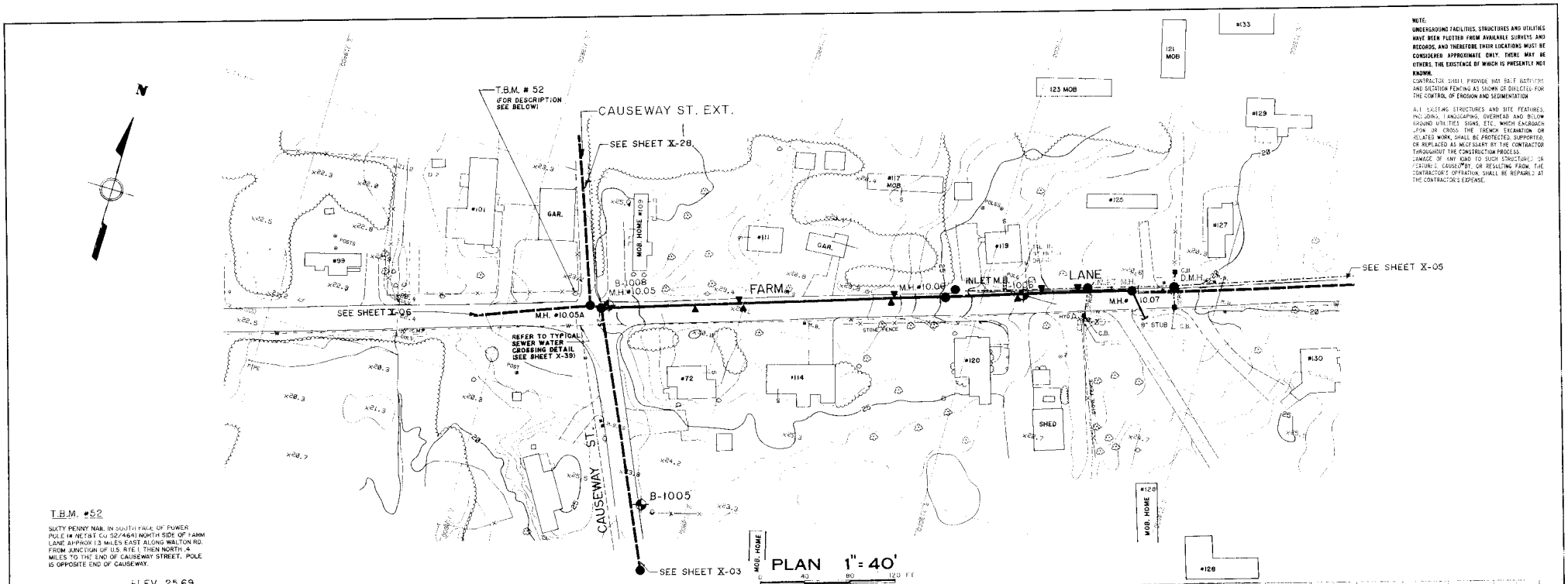
SANITARY SEWER CONSTRUCTION

CAUSEWAY STREET

(MANHOLE NO.10.3) - (MANHOLE NO.10.05)
(MANHOLE NO.05) - (MANHOLE NO. 10.10)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 03 OF 40



NOTE:
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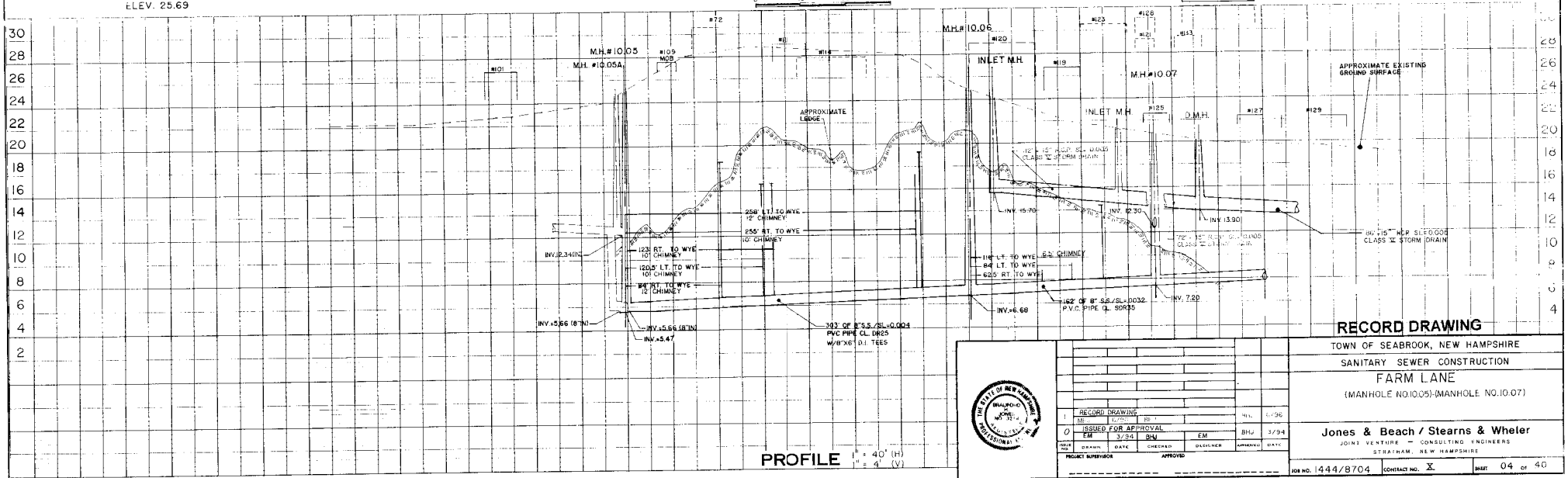
T.B.M. #52

SIXTY PENNY NAIL IN SOUTH FACE OF POWER POLE #4 NET ST CO. 52/46/41 NORTH SIDE OF FARM LANE APPROX 1.3 MILES EAST ALONG WALTON RD. FROM JUNCTION OF U.S. RTE 1, THEN NORTH .4 MILES TO THE END OF CAUSEWAY STREET. POLE IS OPPOSITE END OF CAUSEWAY.

ELEV. 25.69

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING	MI	6/95	RR		MH	6/96
0	ISSUED FOR APPROVAL	EM	3/94	BHJ	EM	BHJ	3/94

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FARM LANE

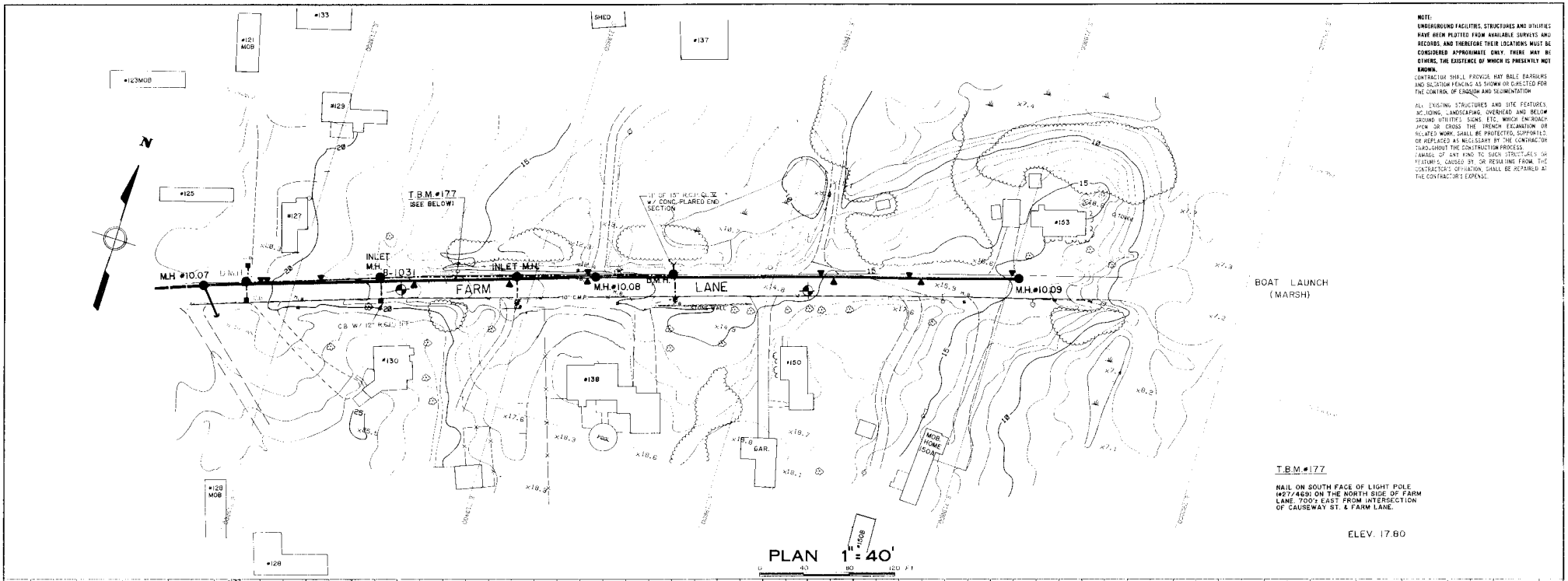
(MANHOLE NO.10.05)-(MANHOLE NO.10.07)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 04 OF 40



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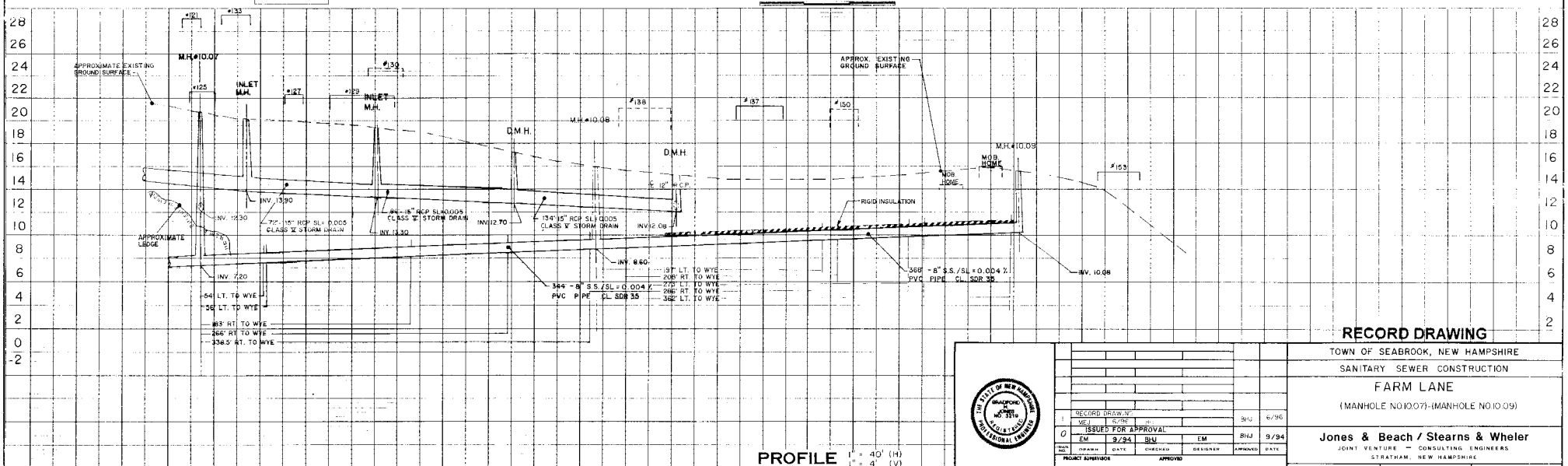
T.B.M.#177

NAIL ON SOUTH FACE OF LIGHT POLE (#27/469) ON THE NORTH SIDE OF FARM LANE, 700± EAST FROM INTERSECTION OF CAUSEWAY ST. & FARM LANE.

ELEV. 17.80

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FARM LANE

(MANHOLE NO.10.07)-(MANHOLE NO.10.09)

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
	MEJ	6/96	RJPE		BHJ	6/96
1	RECORD DRAWING					
0	ISSUED FOR APPROVAL					
	EM	9/94	BHJ	EM	BHJ	9/94

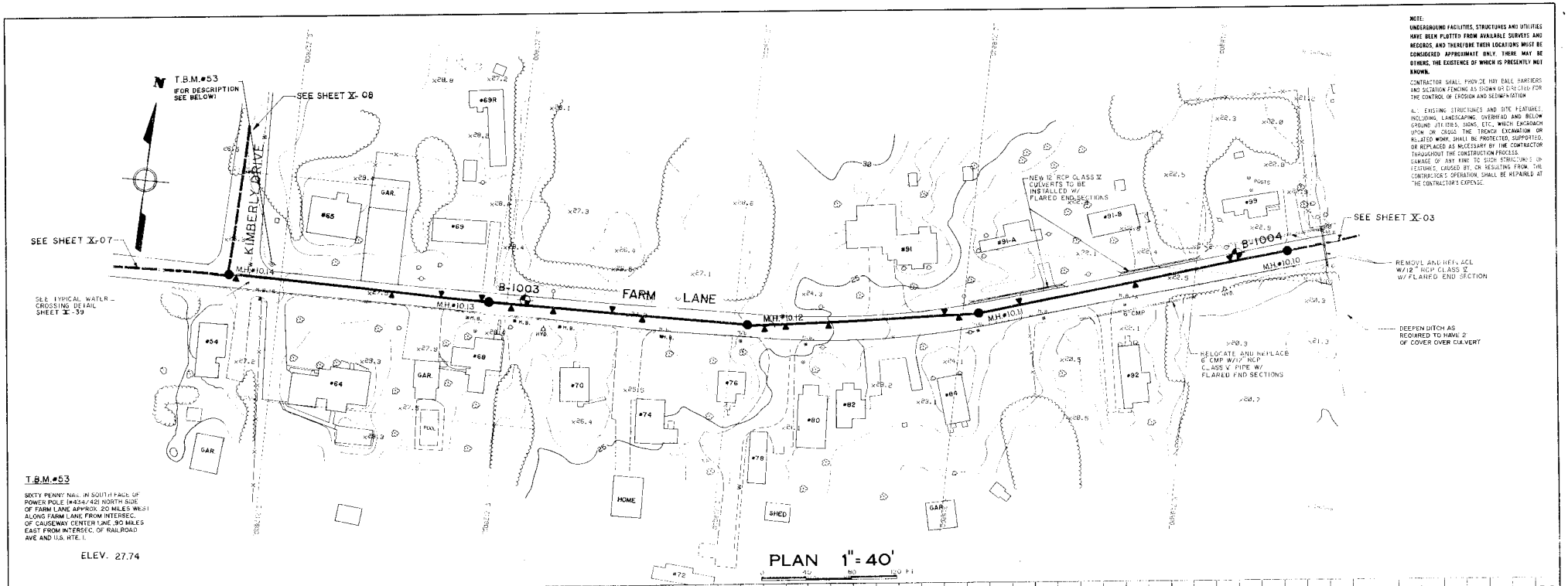
PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 05 OF 40



T.B.M.#53

SIXTY PENNY NAIL IN SOUTH FACE OF POWER POLE (#434/421) NORTH SIDE OF FARM LANE APPROX. 20 MILES WEST ALONG FARM LANE FROM INTERSEC. OF CAUSEWAY CENTER LINE, .90 MILES EAST FROM INTERSEC. OF RAILROAD AVE AND U.S. RTE. 1.

ELEV. 27.74

NOTE:
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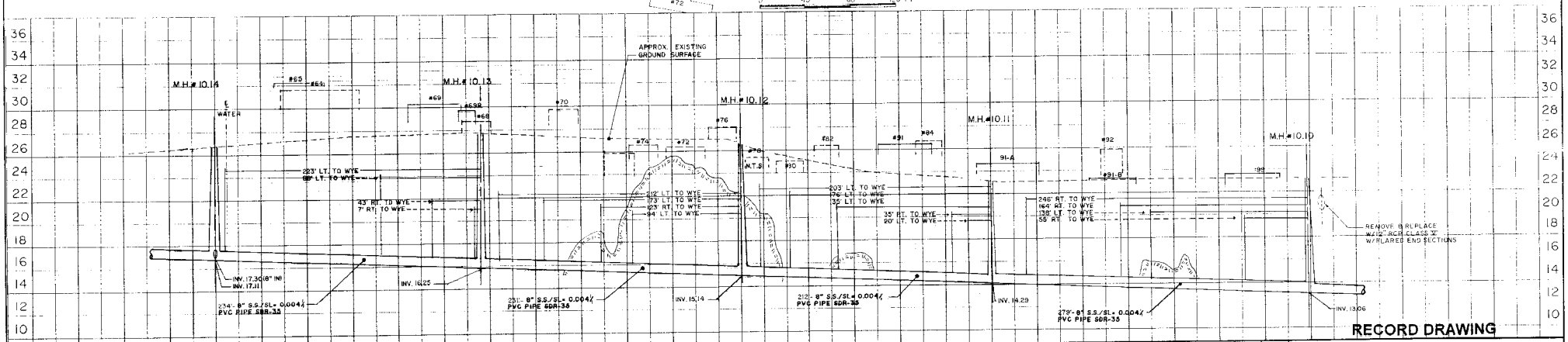
PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	ISSUE	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING	MEJ	6/96	BHJ	RDK	BHJ	6/96
0	ISSUED FOR APPROVAL	SDC	9/94	BHJ	RDK	BHJ	9/94

PROJECT SUPERVISOR

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FARM LANE

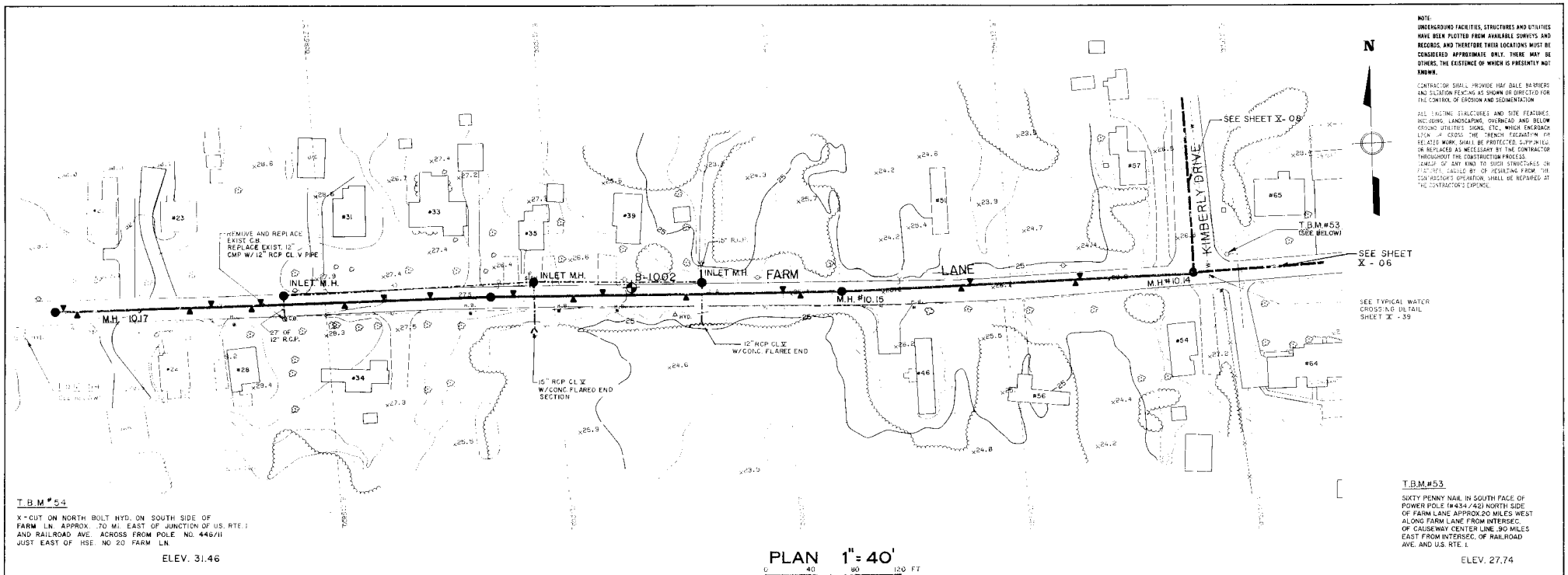
(MANHOLE NO.10.14)-(MANHOLE NO.10.10)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 06 of 40


N
NOTE:
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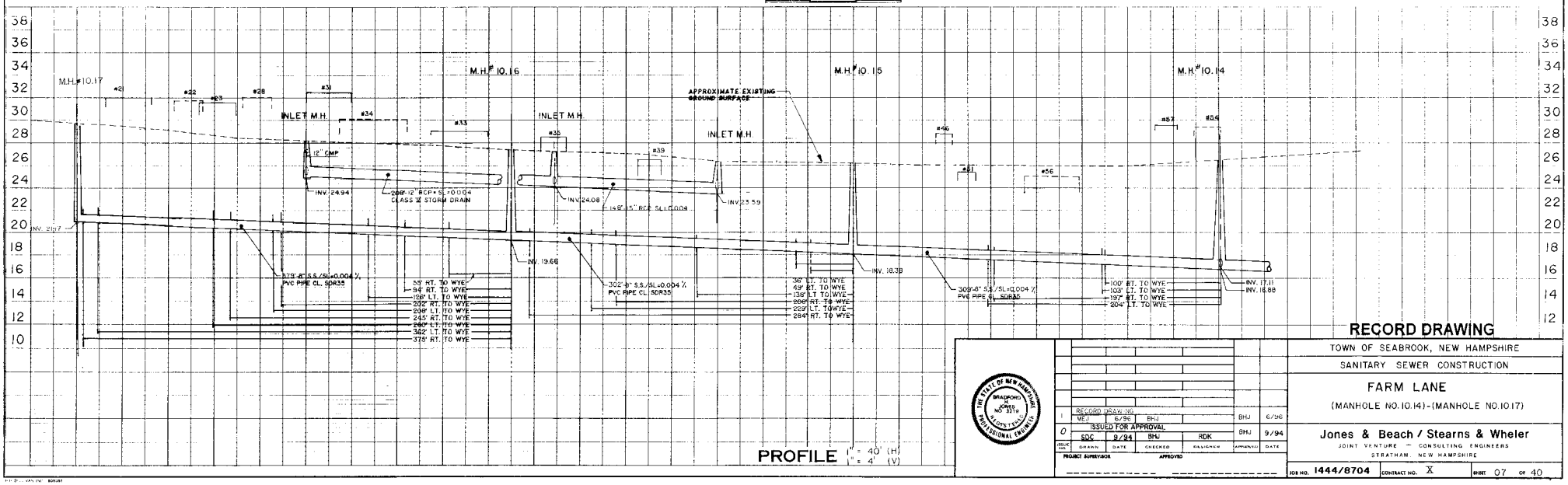
SEE SHEET X- 08
SEE SHEET X - 06
SEE TYPICAL WATER CROSSING DETAIL SHEET X - 39
KIMBERLY DRIVE
FARM LANE
INLET M.H.
M.H. #10.17
M.H. #10.16
M.H. #10.15
M.H. #10.14
B-1002
REMOVE AND REPLACE EXIST C.B. REPLACE EXIST. 12" CMP W/12" RCP CL. V PIPE
27' OF 12" R.C.P.
15" R.C.P.
12" RCP CL IV W/CONC. FLARED END
15" RCP CL IV W/CONC. FLARED END SECTION
T.B.M. #53 (SEE BELOW)
T.B.M. #54
X-CUT ON NORTH BOLT HYD. ON SOUTH SIDE OF FARM LN. APPROX. .70 MI. EAST OF JUNCTION OF US. RTE 1 AND RAILROAD AVE. ACROSS FROM POLE NO. 446/11 JUST EAST OF HSE. NO 20 FARM LN.
ELEV. 31.46
T.B.M. #53
SIXTY PENNY NAIL IN SOUTH FACE OF POWER POLE 1M434/421 NORTH SIDE OF FARM LANE APPROX.20 MILES WEST ALONG FARM LANE FROM INTERSEC. OF CAUSEWAY CENTER LINE .90 MILES EAST FROM INTERSEC. OF RAILROAD AVE. AND U.S. RTE 1.
ELEV. 27.74

PLAN 1" = 40'
0 40 80 120 FT



PROFILE 1" = 40' (H.) 1" = 4' (V.)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FARM LANE

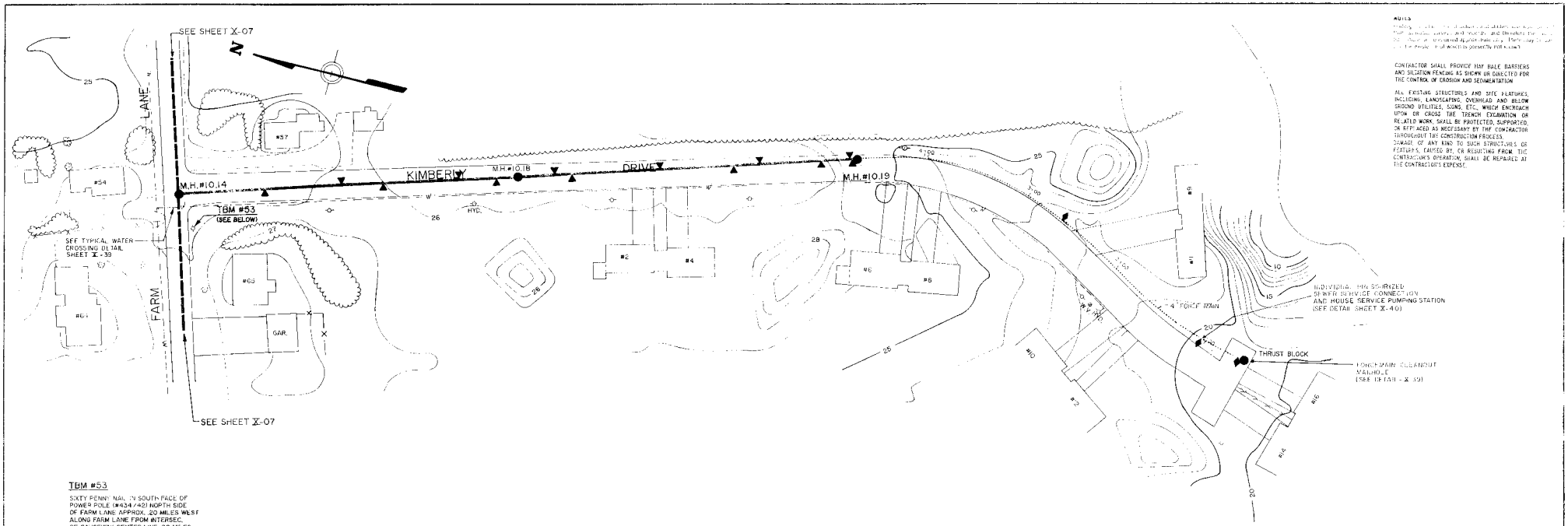
(MANHOLE NO.10.14)-(MANHOLE NO.10.17)

ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	RECORD DRAWING WEJ	6/96	BHJ		BHJ	6/96
0	ISSUED FOR APPROVAL SDC	9/94	BHJ	RDK	BHJ	9/94

PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 07 OF 40



NOTES

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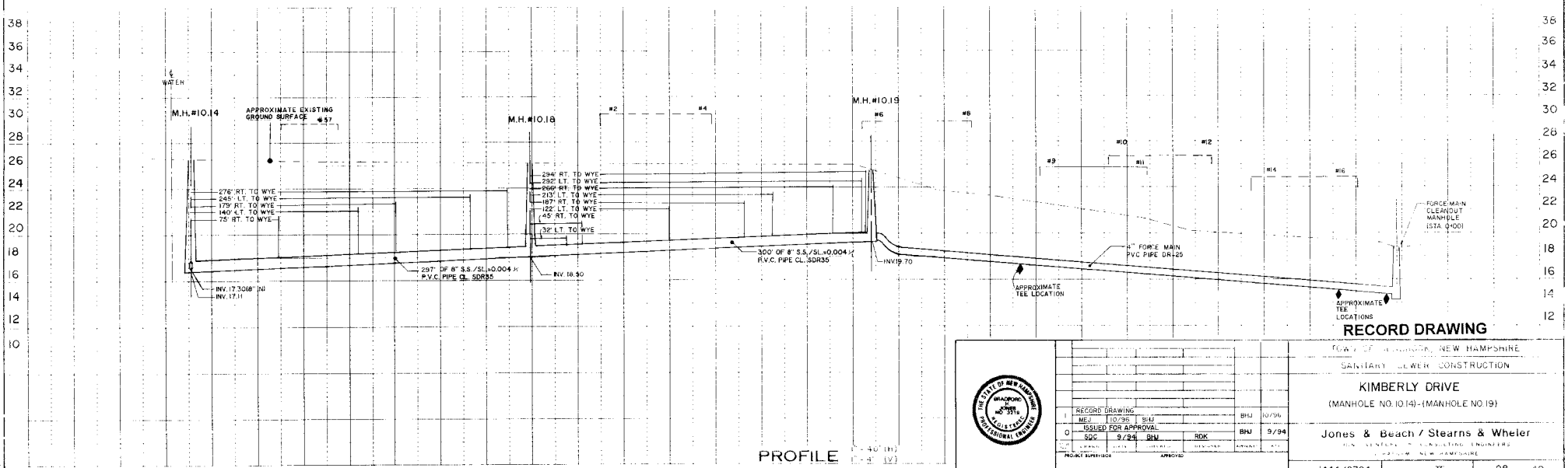
TBM #53

SIXTY PENNY NAIL IN SOUTH FACE OF POWER POLE (#434/42) NORTH SIDE OF FARM LANE APPROX. .20 MILES WEST ALONG FARM LANE FROM INTERSEC. OF CAUSEWAY CENTER LINE .90 MILES EAST FROM INTERSEC. OF RAILROAD AVE. AND U.S. RTE. 1

ELEV. 27.74

PLAN 1" = 40'



PROFILE (H: 1" = 40') (V: 1" = 4')

RECORD DRAWING

1	RECORD DRAWING	MEJ	10/96	BHJ	BHJ	10/96
0	ISSUED FOR APPROVAL	SDC	9/94	BHJ	RDK	BHJ	9/94

PROJECT SUPERVISOR — APPROVED

TOWN OF [illegible], NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

KIMBERLY DRIVE

(MANHOLE NO.10.14)-(MANHOLE NO.19)

Jones & Beach / Stearns & Wheler

CIVIL ENGINEERS & CONSULTING ENGINEERS

[illegible], NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 08 OF 40

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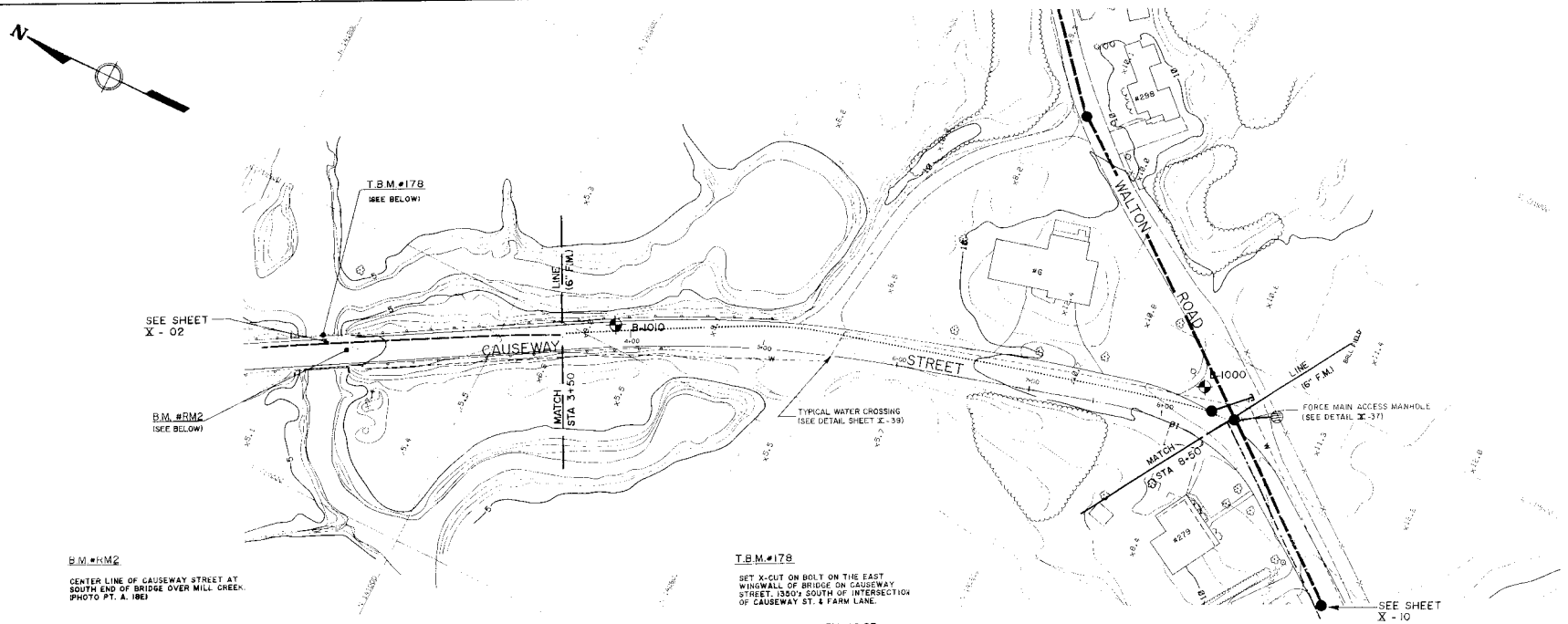


B.M.#RM2

CENTER LINE OF CAUSEWAY STREET AT SOUTH END OF BRIDGE OVER MILL CREEK. (PHOTO PT. A. IBE)

ELEV. 10.13

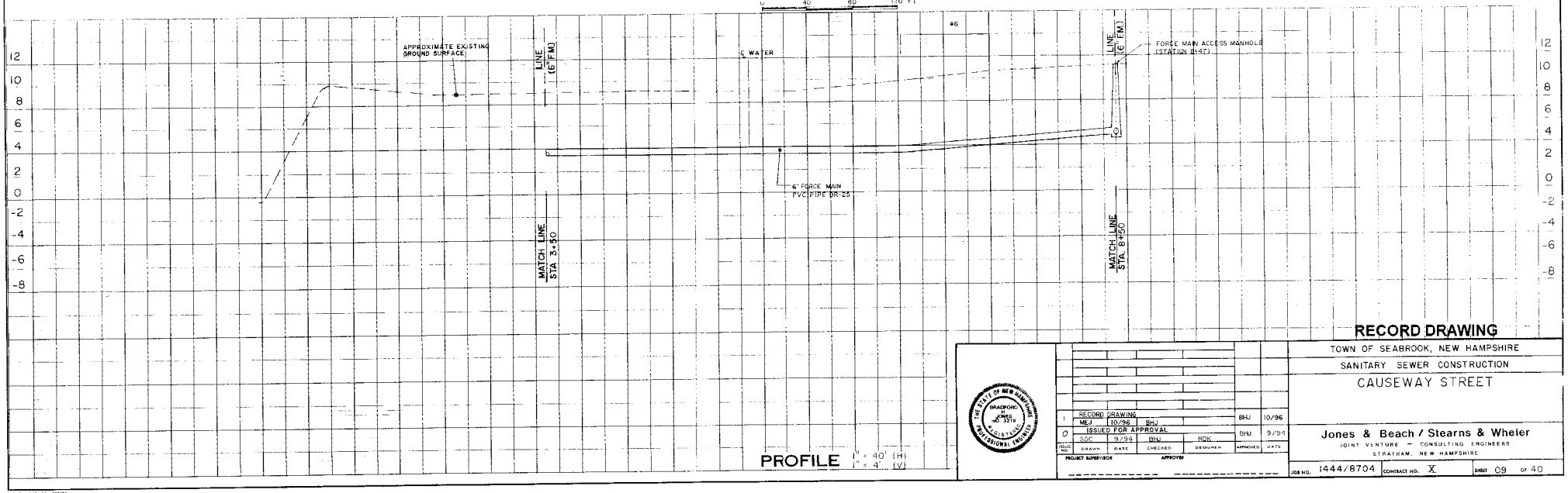
T.B.M.#178

SET X-CUT ON BOLT ON THE EAST WINGWALL OF BRIDGE ON CAUSEWAY STREET, 1360' SOUTH OF INTERSECTION OF CAUSEWAY ST. & FARM LANE.

ELEV. 10.23

PLAN 1" = 40'

0 40 80 120 FT


APPROXIMATE EXISTING GROUND SURFACE
MATCH LINE STA 3+50
16" F.M.
℄ WATER
6" FORCE MAIN PVC PIPE DR-25
FORCE MAIN ACCESS MANHOLE (STATION 8+47)
MATCH LINE STA. 8+50
#6
12 10 8 6 4 2 0 -2 -4 -6 -8

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CAUSEWAY STREET

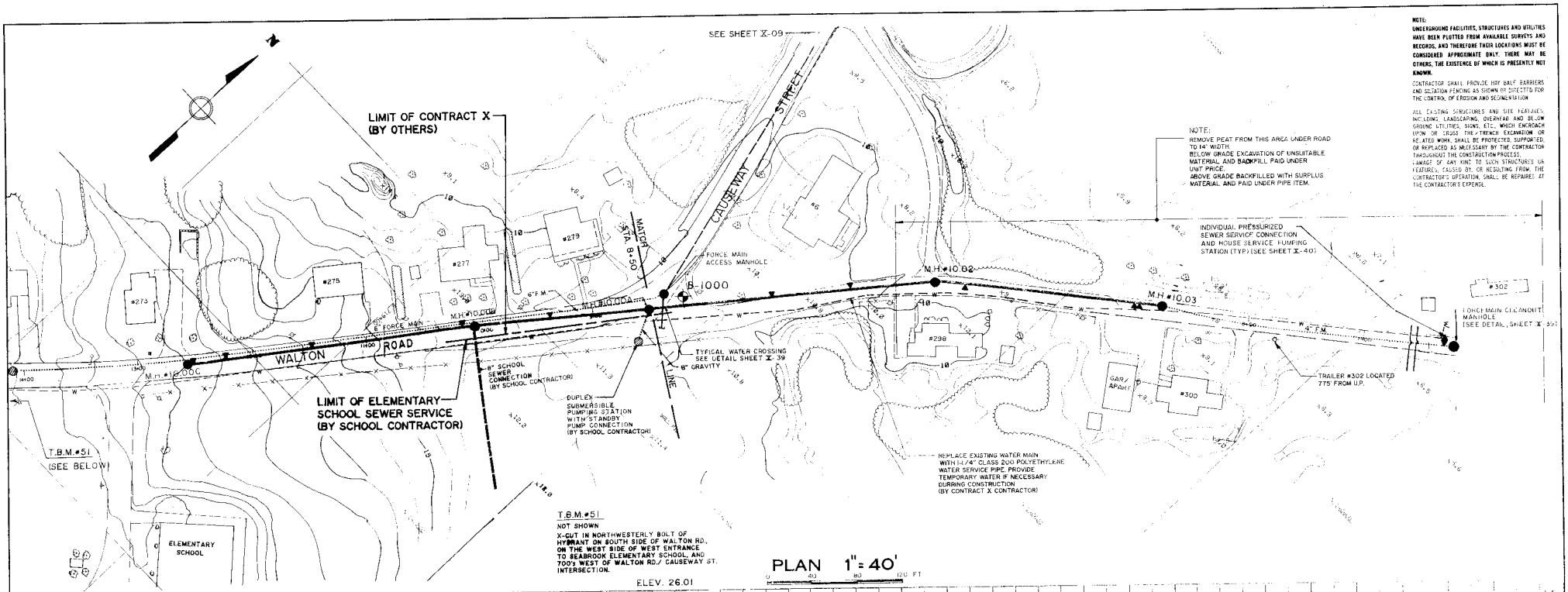
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	RECORD DRAWING MEJ	10/96	BHJ		BHJ	10/96
0	ISSUED FOR APPROVAL SDC	9/94	BHJ	RDK	BHJ	9/94

PROJECT SUPERVISOR APPROVED

THE STATE OF NEW HAMPSHIRE BRADFORD H. JONES No. 3378 REGISTERED PROFESSIONAL ENGINEER

Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 09 OF 40


SEE SHEET X-09
LIMIT OF CONTRACT X
(BY OTHERS)
CAUSEWAY STREET
MATCH LINE STA. 8+50
FORCE MAIN ACCESS MANHOLE
M.H.#10.02
M.H.#10.03
M.H.#10.00A
M.H.#10.00C
B-1000
WALTON ROAD
8" FORCE MAIN
8" SCHOOL SEWER CONNECTION (BY SCHOOL CONTRACTOR)
LIMIT OF ELEMENTARY SCHOOL SEWER SERVICE (BY SCHOOL CONTRACTOR)
DUPLEX SUBMERSIBLE PUMPING STATION WITH STANDBY PUMP CONNECTION (BY SCHOOL CONTRACTOR)
TYPICAL WATER CROSSING SEE DETAIL SHEET X-39
8" GRAVITY
T.L. LINE
INDIVIDUAL PRESSURIZED SEWER SERVICE CONNECTION AND HOUSE SERVICE PUMPING STATION (TYP.) (SEE SHEET X-40)
NOTE:
REMOVE PEAT FROM THIS AREA UNDER ROAD TO 14' WIDTH
BELOW GRADE EXCAVATION OF UNSUITABLE MATERIAL AND BACKFILL PAID UNDER UNIT PRICE.
ABOVE GRADE BACKFILLED WITH SURPLUS MATERIAL AND PAID UNDER PIPE ITEM.
FORCE MAIN CLEANOUT MANHOLE (STATION 0+00) (SEE DETAIL, SHEET X-39)
TRAILER #302 LOCATED 775' FROM U.P.
REPLACE EXISTING WATER MAIN WITH 14"/4" CLASS 200 POLYETHYLENE WATER SERVICE PIPE. PROVIDE TEMPORARY WATER IF NECESSARY DURRING CONSTRUCTION (BY CONTRACT X CONTRACTOR)
T.B.M.#51
(SEE BELOW)
ELEMENTARY SCHOOL
#273
#275
#277
#279
#298
#300
#302
GAR./APART.
T.B.M.#51
NOT SHOWN
X-CUT IN NORTHWESTERLY BOLT OF HYDRANT ON SOUTH SIDE OF WALTON RD., ON THE WEST SIDE OF WEST ENTRANCE TO SEABROOK ELEMENTARY SCHOOL, AND 700'± WEST OF WALTON RD./ CAUSEWAY ST. INTERSECTION.
ELEV. 26.01

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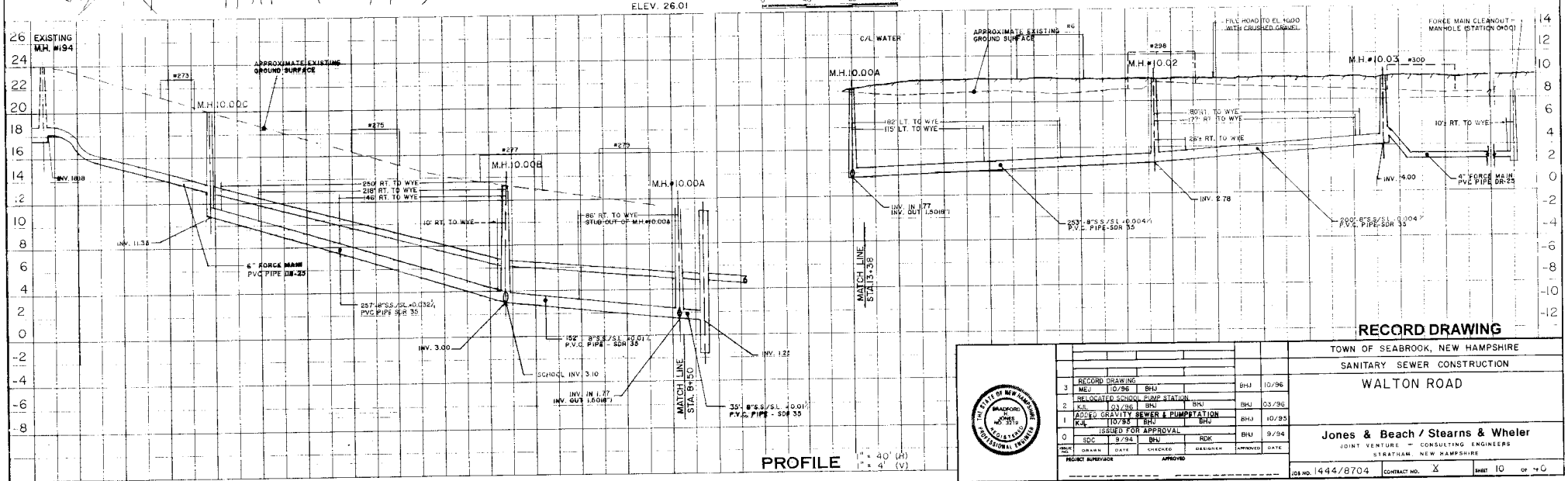
PLAN 1" = 40'



RECORD DRAWING

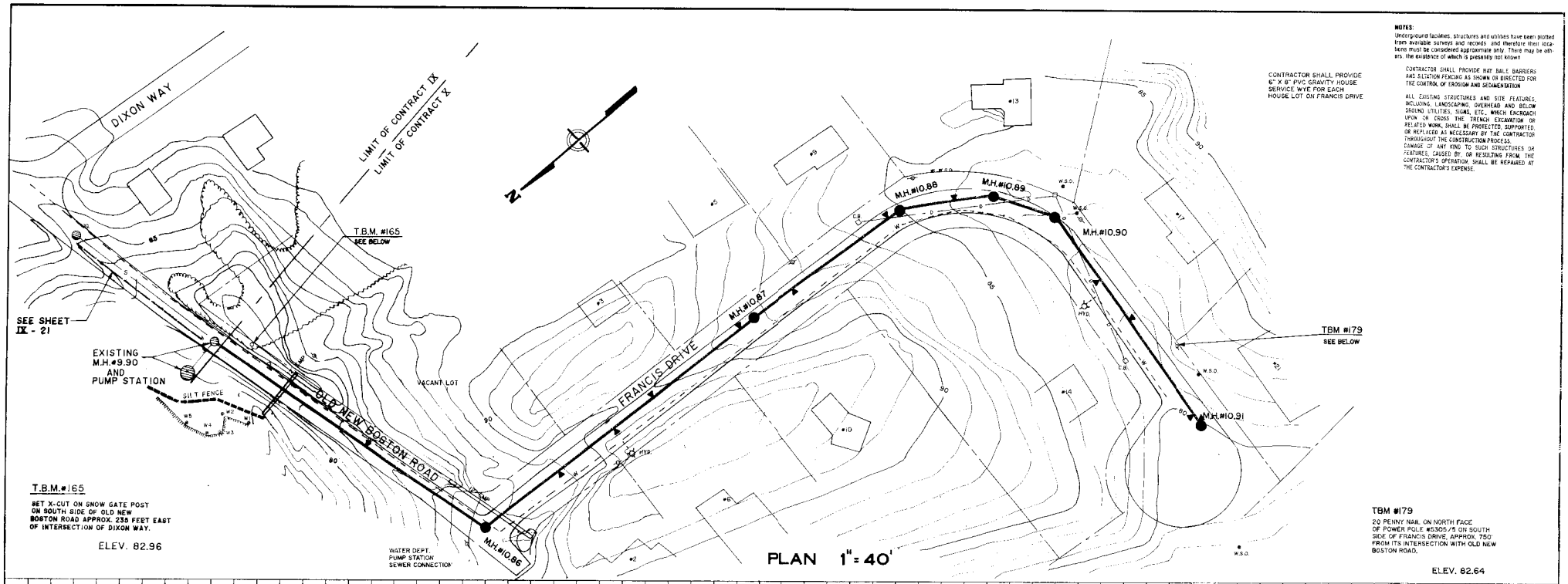
NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	MEJ	10/96	BHJ		BHJ	10/96
2	RELOCATED SCHOOL PUMP STATION	KJL	03/96	BHJ	BHJ	BHJ	03/96
1	ADDED GRAVITY SEWER & PUMPSTATION	KJL	10/95	BHJ	BHJ	BHJ	10/95
0	ISSUED FOR APPROVAL	SDC	9/94	BHJ	RDK	BHJ	9/94

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
WALTON ROAD

Jones & Beach / Stearns & Wheler
JOINT VENTURE – CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 10 OF 40



T.B.M.#165

SET X-CUT ON SNOW GATE POST ON SOUTH SIDE OF OLD NEW BOSTON ROAD APPROX. 235 FEET EAST OF INTERSECTION OF DIXON WAY.

ELEV. 82.96

TBM #179

20 PENNY NAIL ON NORTH FACE OF POWER POLE #5305/5 ON SOUTH SIDE OF FRANCIS DRIVE, APPROX. 750' FROM ITS INTERSECTION WITH OLD NEW BOSTON ROAD.

ELEV. 82.64

PLAN 1" = 40'

NOTES:

Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. There may be others the existance of which is presently not known.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

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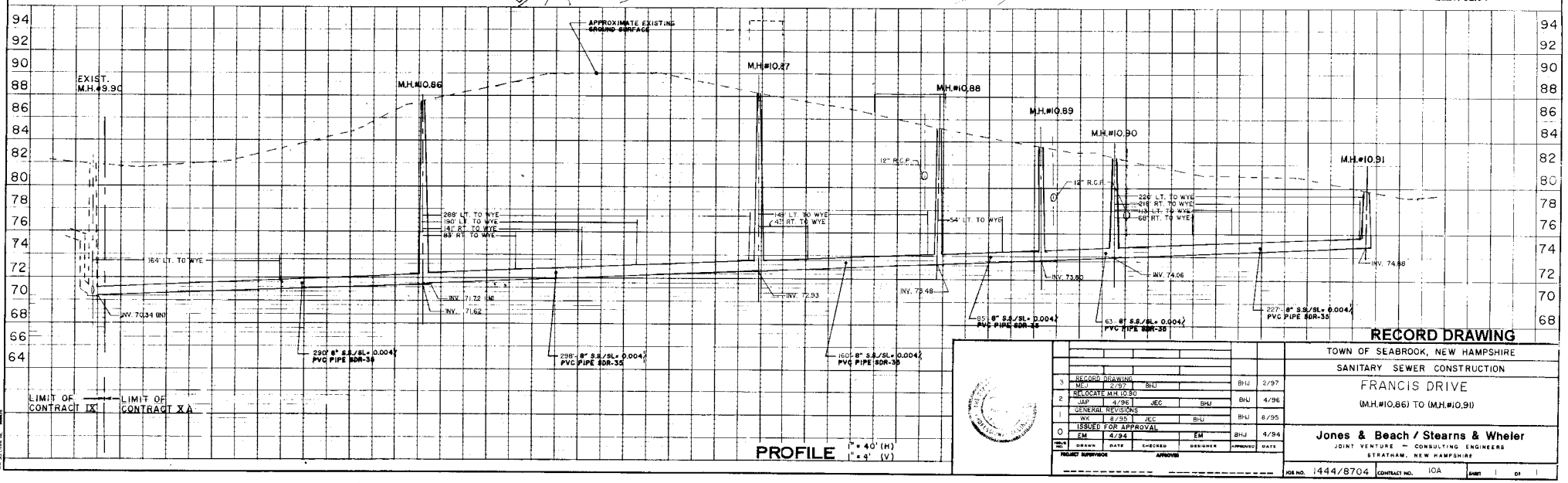


PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
3	RECORD DRAWING	MEJ	2/97	BHJ		BHJ	2/97
2	RELOCATE M.H.10.90	JAP	4/96	JEC	BHJ	BHJ	4/96
1	GENERAL REVISIONS	WK	8/95	JEC	BHJ	BHJ	8/95
0	ISSUED FOR APPROVAL	EM	4/94		EM	BHJ	4/94

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

FRANCIS DRIVE

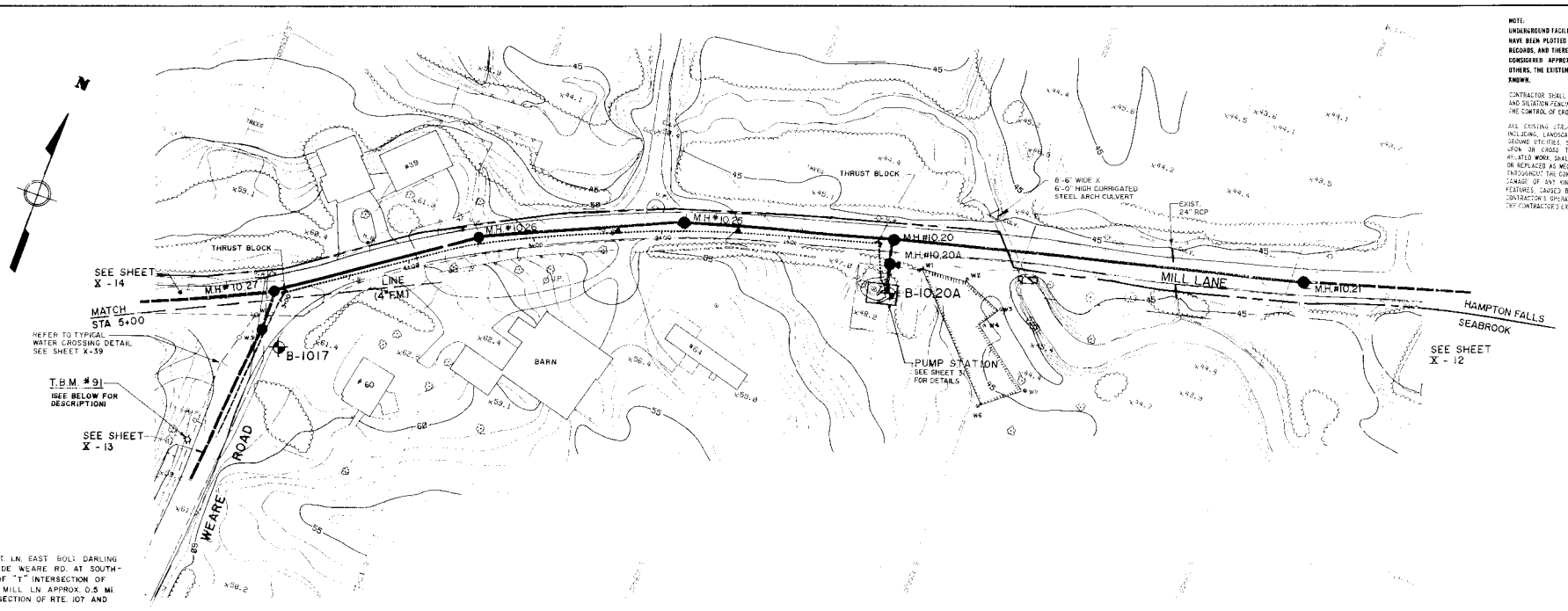
(M.H.#10.86) TO (M.H.#10.91)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. 10A | SHEET 1 OF 1



NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE WARRENE AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

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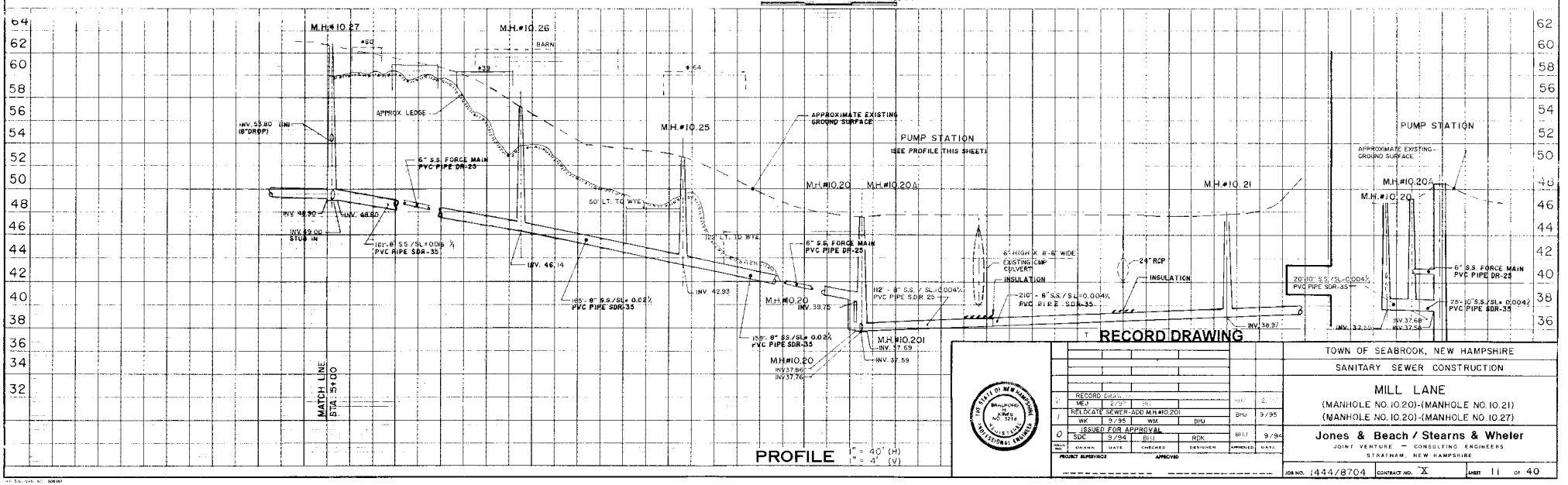
T.B.M. #91
SET X-CUT CENT. LN. EAST BOLT DARLING HYD. ON WEST SIDE WEARE RD. AT SOUTH-WEST CORNER OF "T" INTERSECTION OF WEARE RD. & MILL LN. APPROX. 0.5 MI EAST OF INTERSECTION OF RTE. 107 AND WEARE RD.

ELEV. 62.60

PLAN 1" = 40'
0 40 80 120 FT



RECORD DRAWING

NO.	DESCRIPTION	DES.	DATE
2	RECORD DRAWING	MEJ	2/97
1	RELOCATE SEWER-ADD M.H.#10.20	WK	9/95
0	ISSUED FOR APPROVAL	SDC	9/94

DRAWN: MEJ 2/97 | CHECKED: BHJ | DESIGNER: RDK | APPROVED: BHJ 9/95 | DATE: 9/94
PROJECT SUPERVISOR: APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

MILL LANE
(MANHOLE NO.10.20)-(MANHOLE NO.10.21)
(MANHOLE NO.10.20)-(MANHOLE NO.10.27)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 11 OF 40

NOTES:

Underground sewerage structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others the existence of which is presently not known.

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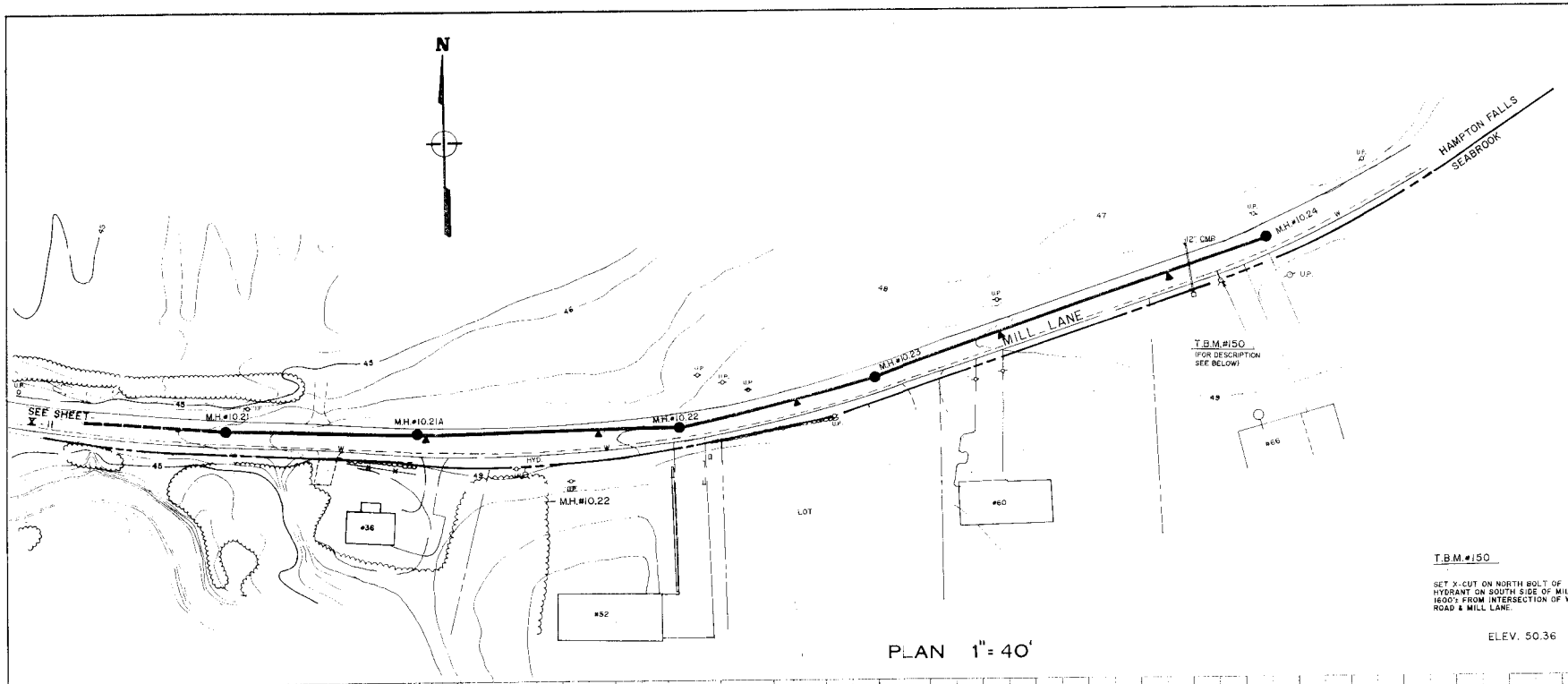
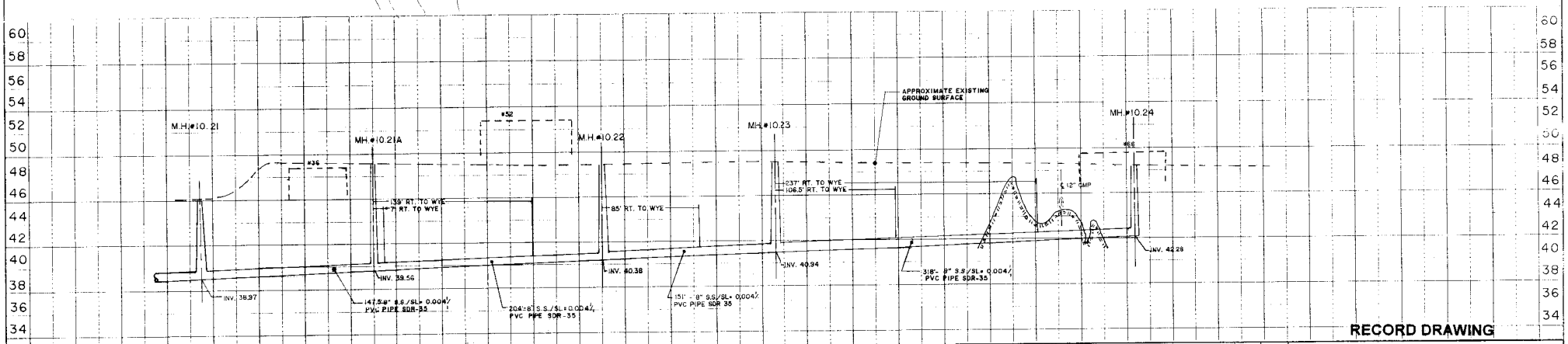


PLAN 1" = 40'

T.B.M.#150

SET X-CUT ON NORTH BOLT OF HYDRANT ON SOUTH SIDE OF MILL LANE 1600'± FROM INTERSECTION OF WEARE ROAD & MILL LANE.

ELEV. 50.36



PROFILE 1" = 0' (H)
1" = (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

MILL LANE

(MANHOLE NO.10.21)-(MANHOLE NO.10.24)

NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING MEJ	10/96	BHJ		BHJ	10/96
1	GENERAL REVISIONS WK	9/95	WM	BHJ	BHJ	9/95
0	ISSUED FOR APPROVAL SDC	9/94	BHJ	RDK	BHJ	9/94

PROJECT SUPERVISOR — APPROVED

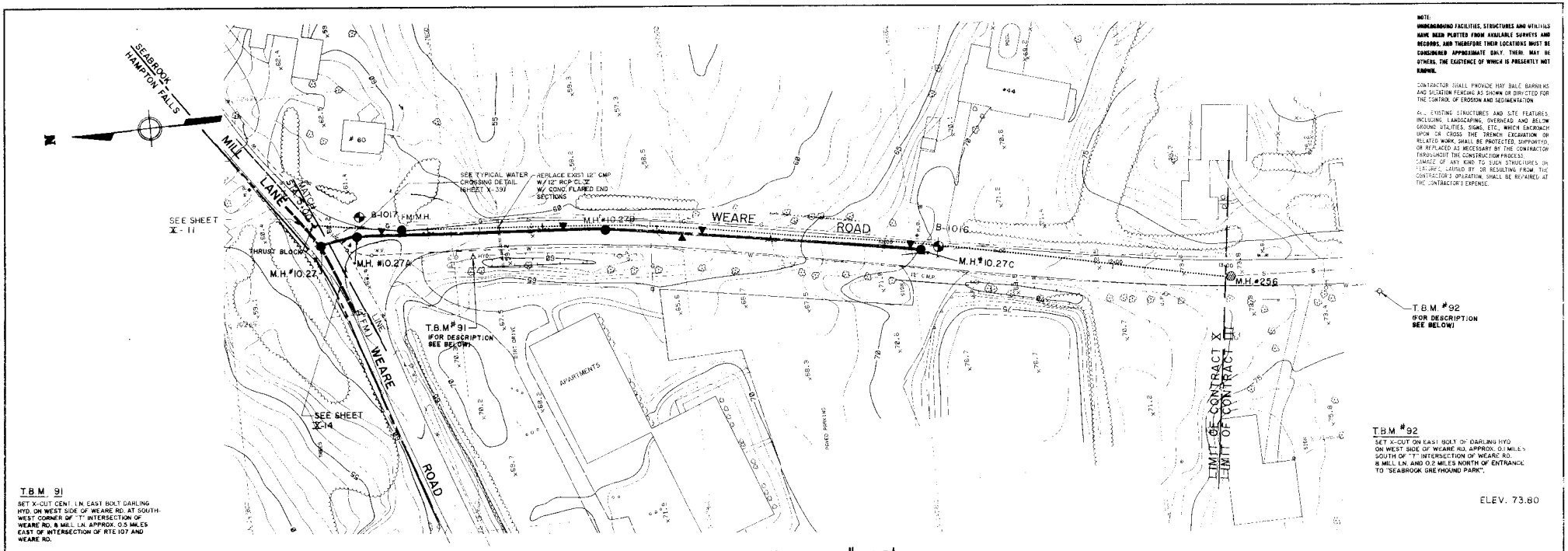
THE STATE OF NEW HAMPSHIRE — BRADFORD S. JONES NO. 3319 — REGISTERED PROFESSIONAL ENGINEER

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 12 OF 40



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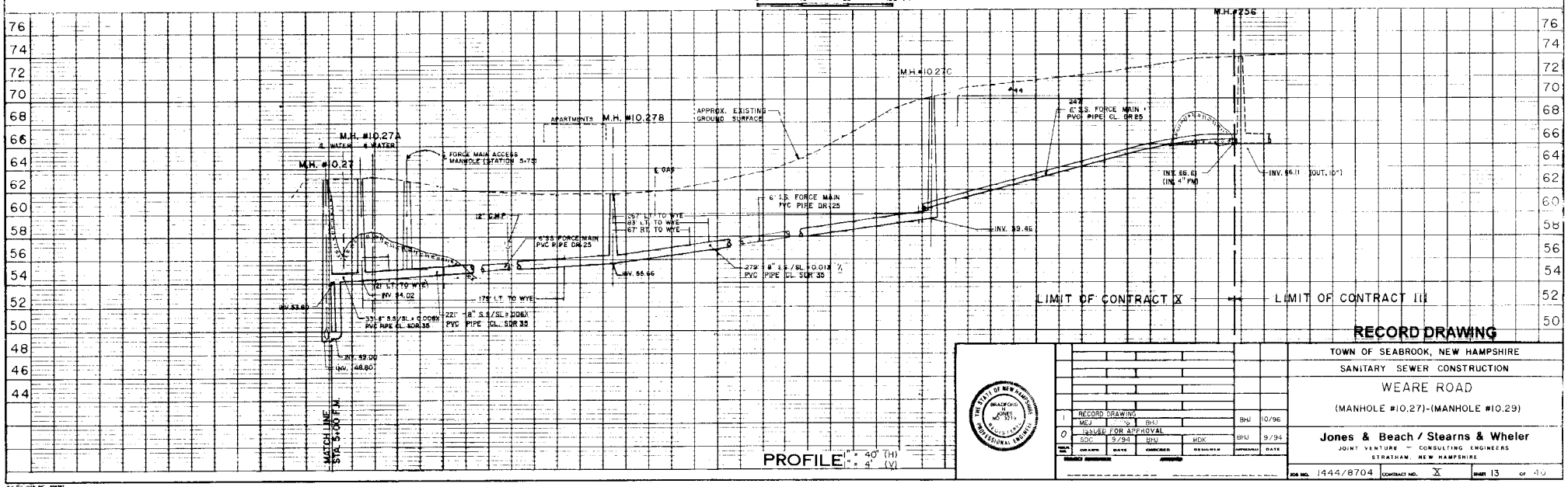
T.B.M. #91
SET X-CUT CENT. LN. EAST BOLT DARLING HYD. ON WEST SIDE OF WEARE RD. AT SOUTH-WEST CORNER OF "T" INTERSECTION OF WEARE RD. & MILL LN. APPROX. 0.5 MILES EAST OF INTERSECTION OF RTE 107 AND WEARE RD.

ELEV. 62.60

T.B.M. #92
SET X-CUT ON EAST BOLT OF DARLING HYD ON WEST SIDE OF WEARE RD. APPROX. 0.1 MILES SOUTH OF "T" INTERSECTION OF WEARE RD. & MILL LN. AND 0.2 MILES NORTH OF ENTRANCE TO "SEABROOK GREYHOUND PARK".

ELEV. 73.80

PLAN 1" = 40'
0 40 80 120 FT


M.H. #10.27A
M.H. #10.27
M.H. #10.27B
M.H. #10.27C
M.H. #256
APARTMENTS
APPROX. EXISTING GROUND SURFACE
8" WATER & WATER
8" FORCE MAIN ACCESS MANHOLE (STATION 5+75)
12" CMP
6" S.S. FORCE MAIN PVC PIPE DR 25
242' 6" S.S. FORCE MAIN PVC PIPE CL. DR 25
279' 8" S.S./SL. @ 0.01ft/ft PVC PIPE CL. SDR 35
331.6' 8" S.S./SL. @ 0.008ft/ft PVC PIPE CL. SDR 35
221' 8" S.S./SL. @ 0.016ft/ft PVC PIPE CL. SDR 35
INV. 53.00
INV. 48.80
INV. 53.60
INV. 54.02
INV. 55.66
INV. 59.46
INV. 66.6 (IN) 4" PVC
INV. 66.1 (OUT) 10"
261' LT. TO WYE
175' LT. TO WYE
257' LT. TO WYE
67' RT. TO WYE
MATCH LINE STA. 5+00 P.M.
LIMIT OF CONTRACT X
LIMIT OF CONTRACT III

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

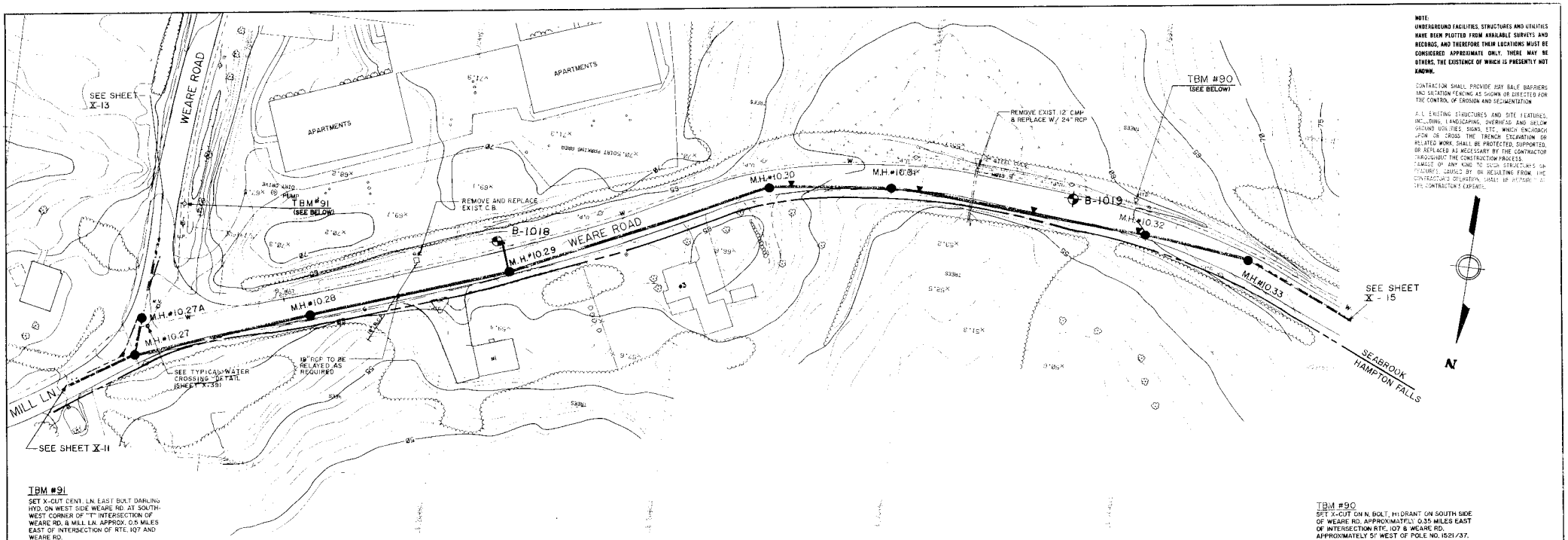
NO.	DESCRIPTION	DRAWN	DESIGNED	CHECKED	APPROVED	DATE
1	RECORD DRAWING	MDJ	S BHJ		BHJ	10/96
0	ISSUED FOR APPROVAL	SDC 9/94	BHJ	RDK	BHJ	9/94

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
WEARE ROAD
(MANHOLE #10.27)-(MANHOLE #10.29)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 13 OF 40

H.H. SULLIVAN INC. 606307



NOTE:
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TBM #91
SET X-CUT CENT. LN. EAST BOLT DARLING HYD. ON WEST SIDE WEARE RD. AT SOUTH-WEST CORNER OF "T" INTERSECTION OF WEARE RD. & MILL LN. APPROX. 0.5 MILES EAST OF INTERSECTION OF RTE. 107 AND WEARE RD.

ELEV. 62.60

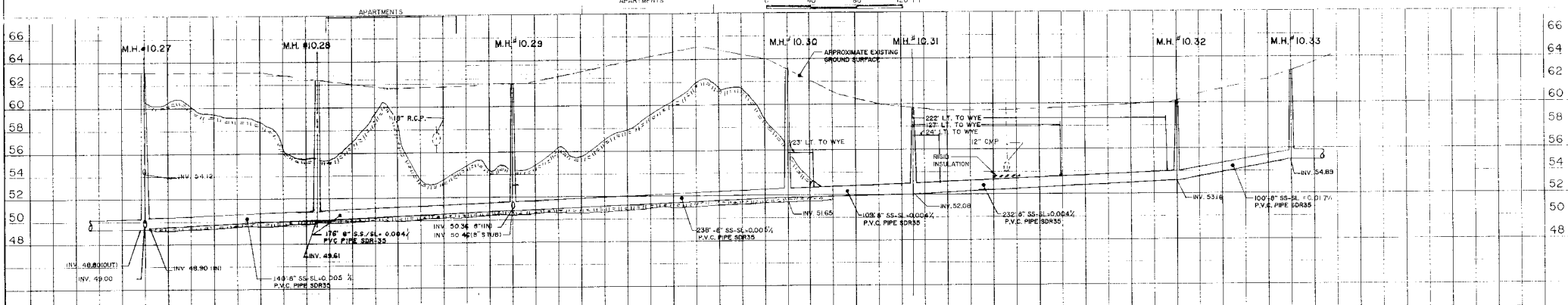
TBM #90
SET X-CUT ON N. BOLT, HYDRANT ON SOUTH SIDE OF WEARE RD. APPROXIMATELY 0.35 MILES EAST OF INTERSECTION RTE. 107 & WEARE RD. APPROXIMATELY 51' WEST OF POLE NO. 152/37.

ELEV. 61.94

PLAN 1"= 40'

0 40 80 120 FT

PROFILE 1" = 40' (H) 1" = 4' (V)



RECORD DRAWING

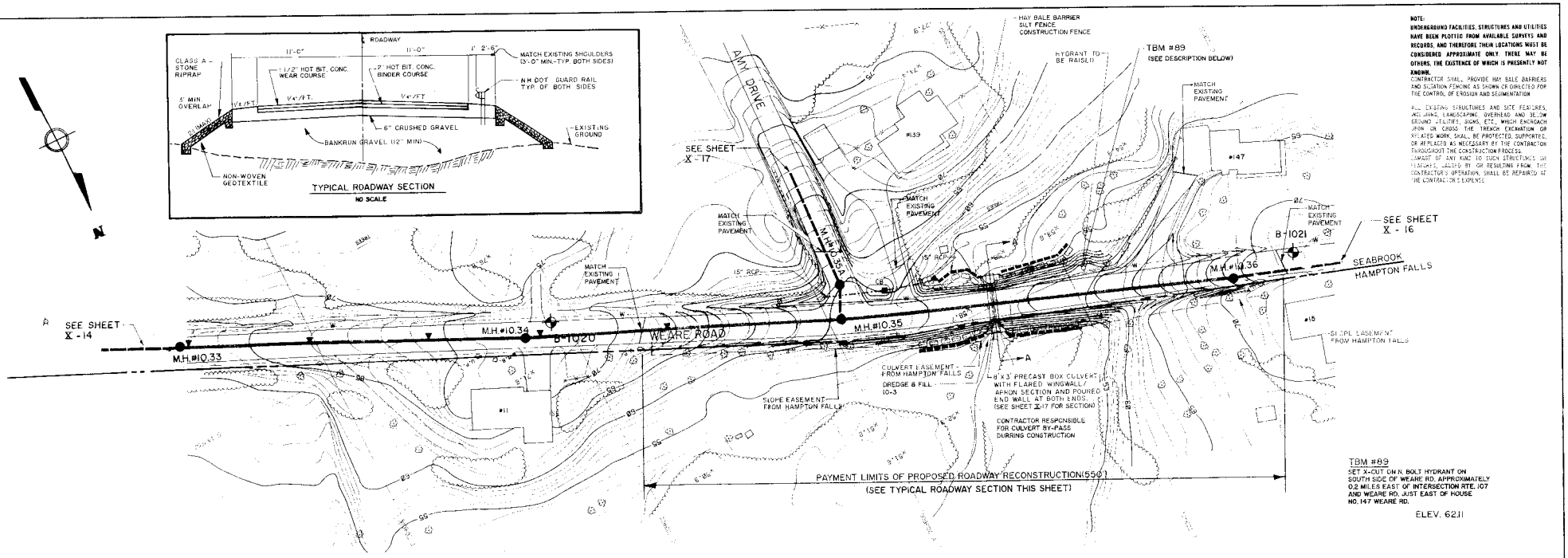
	RECORD DRAWING				BHJ	10/96
	MEJ	10/96	BHJ			
0	ISSUED FOR APPROVAL				BHJ	9/94
	SDC	9/94	BHJ	RDK		
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
WEARE ROAD
(MANHOLE #10.27)-(MANHOLE #10.33)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 14 OF 40


TYPICAL ROADWAY SECTION
NO SCALE
CLASS A - STONE RIPRAP
1 1/2" HOT BIT. CONC. WEAR COURSE
2" HOT BIT. CONC. BINDER COURSE
N.H.DOT GUARD RAIL TYP. OF BOTH SIDES
5' MIN. OVERLAP
6" CRUSHED GRAVEL
BANKRUN GRAVEL (12" MIN)
EXISTING GROUND
NON-WOVEN GEOTEXTILE
MATCH EXISTING SHOULDERS (3'-0" MIN.-TYP. BOTH SIDES)
HAY BALE BARRIER SILT FENCE CONSTRUCTION FENCE
HYDRANT TO BE RAISED
TBM #89
(SEE DESCRIPTION BELOW)
AMY DRIVE
SEE SHEET X - 17
MATCH EXISTING PAVEMENT
M.H.#10.35A
15" RCP
SEE SHEET X - 16
SEABROOK
HAMPTON FALLS
B-1021
M.H.#10.36
SEE SHEET X - 14
M.H.#10.33
M.H.#10.34
B-1020
WEARE ROAD
#11
#139
#147
#15
CULVERT EASEMENT FROM HAMPTON FALLS
DREDGE & FILL 10-3
SLOPE EASEMENT FROM HAMPTON FALLS
8'X3' PRECAST BOX CULVERT WITH FLARED WINGWALL/ APRON SECTION AND POURED END WALL AT BOTH ENDS. (SEE SHEET X-17 FOR SECTION)
CONTRACTOR RESPONSIBLE FOR CULVERT BY-PASS DURING CONSTRUCTION
PAYMENT LIMITS OF PROPOSED ROADWAY RECONSTRUCTION(550')
(SEE TYPICAL ROADWAY SECTION THIS SHEET)
SLOPE EASEMENT FROM HAMPTON FALLS
TBM #89
SET X-CUT ON N. BOLT HYDRANT ON SOUTH SIDE OF WEARE RD. APPROXIMATELY 0.2 MILES EAST OF INTERSECTION RTE. 107 AND WEARE RD. JUST EAST OF HOUSE NO. 147 WEARE RD.
ELEV. 62.11

NOTE:
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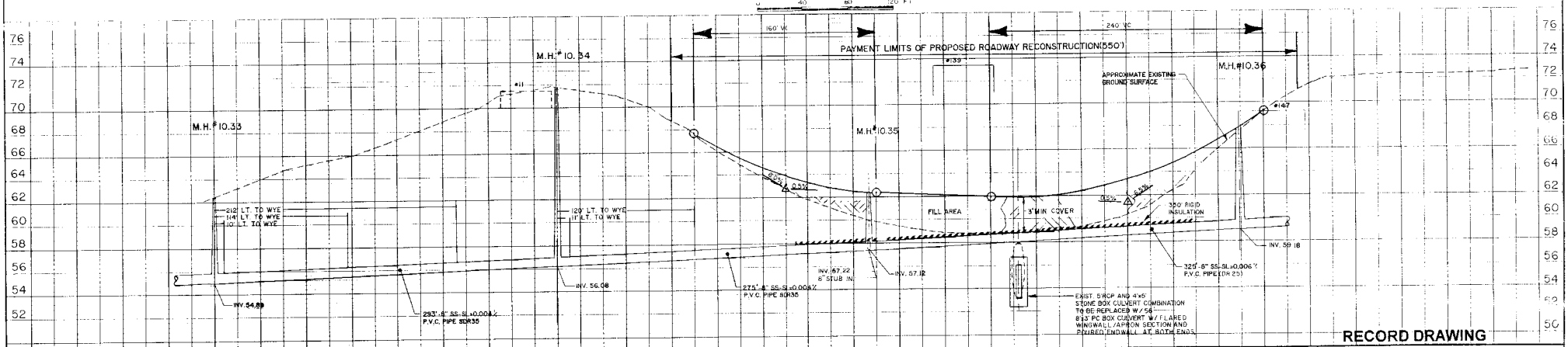
PLAN 1" = 40'


PROFILE 1" = 40' (H) 1" = 4' (V)
M.H.#10.33
M.H.#10.34
M.H.#10.35
M.H.#10.36
160' VC
240' VC
PAYMENT LIMITS OF PROPOSED ROADWAY RECONSTRUCTION(550')
#11
#139
#147
APPROXIMATE EXISTING GROUND SURFACE
212' LT. TO WYE
141' LT. TO WYE
101' LT. TO WYE
120' LT. TO WYE
11' LT. TO WYE
FILL AREA
3' MIN. COVER
350' RIGID INSULATION
INV. 59.18
INV. 54.89
INV. 56.08
INV. 57.22 8" STUB IN
INV. 57.12
293'-8" SS-SL +0.004% P.V.C. PIPE SDR35
275'-8" SS-SL +0.004% P.V.C. PIPE SDR35
325'-6" SS-SL +0.006% P.V.C. PIPE (DR 25)
EXIST. 5'RCP AND 4'x5' STONE BOX CULVERT COMBINATION TO BE REPLACED W/ 56' 8'x3' PC BOX CULVERT W/ FLARED WINGWALL/APRON SECTION AND POURED END WALL AT BOTH ENDS

RECORD DRAWING

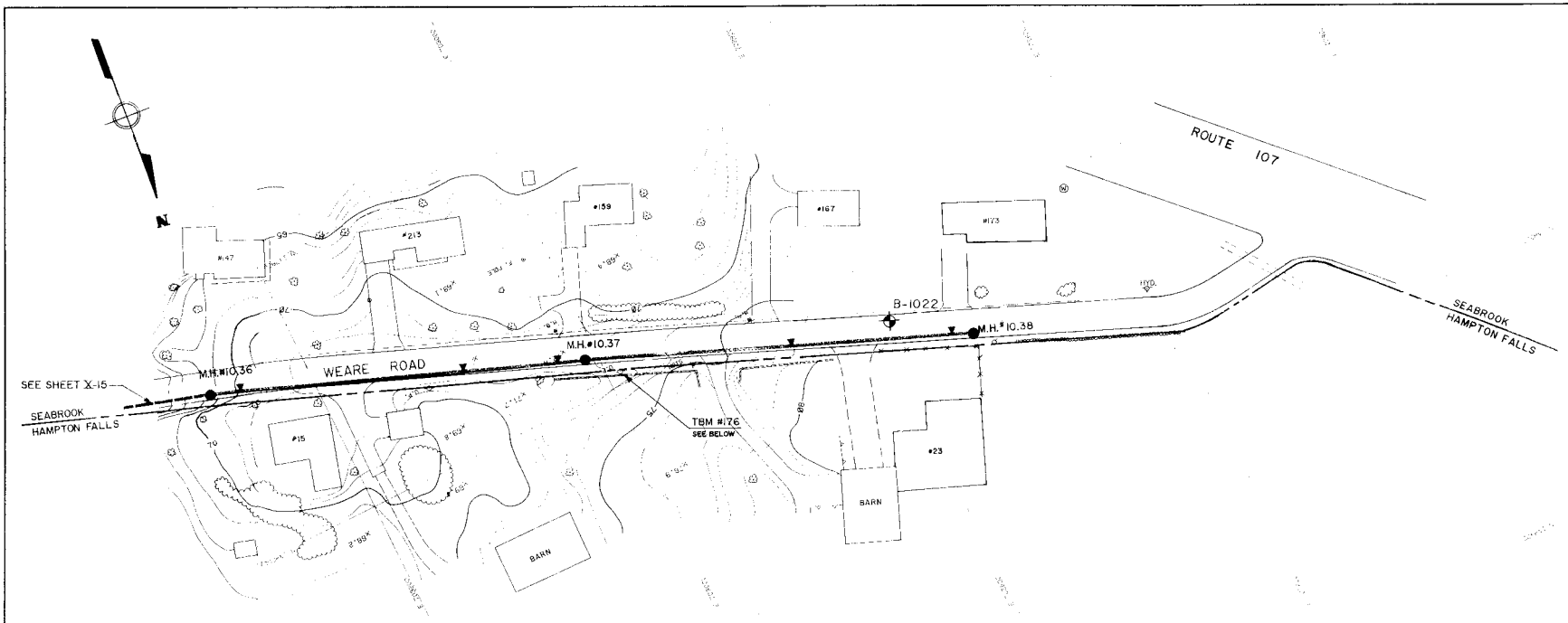
3	RECORD DRAWING					BHJ	10/96
	MEET	10/96	BHJ				
2	SEDIMENT & EROSION CONTROL					BHJ	5/95
	WK	5/95	BHJ		KAD		
1	GENERAL REVISIONS					BHJ	2/95
	WK	2/95	JEC		BHJ		
0	ISSUED FOR APPROVAL					BHJ	11/94
	SDK	11/94	BHJ		RDK		
	DRAWN	DATE	CHECKED		DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
WEARE ROAD
(MANHOLE NO 10.33)-(MANHOLE NO. 10.36)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 13 OF 16



NOTE.
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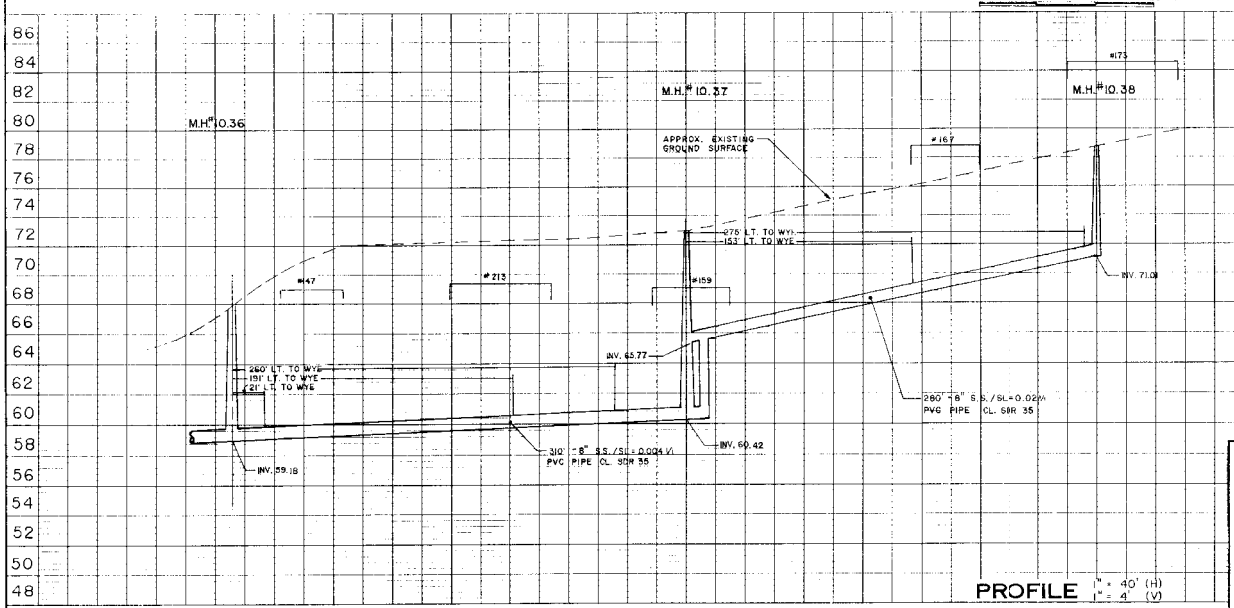
TBM #176
NAIL IN SOUTH FACE OF UTILITY POLE#18 ON NORTH SIDE OF WEARE ROAD, 500'± EAST FROM INTERSECTION OF WEARE ROAD & ROUTE 107

ELEV. 74.73

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

WEARE ROAD

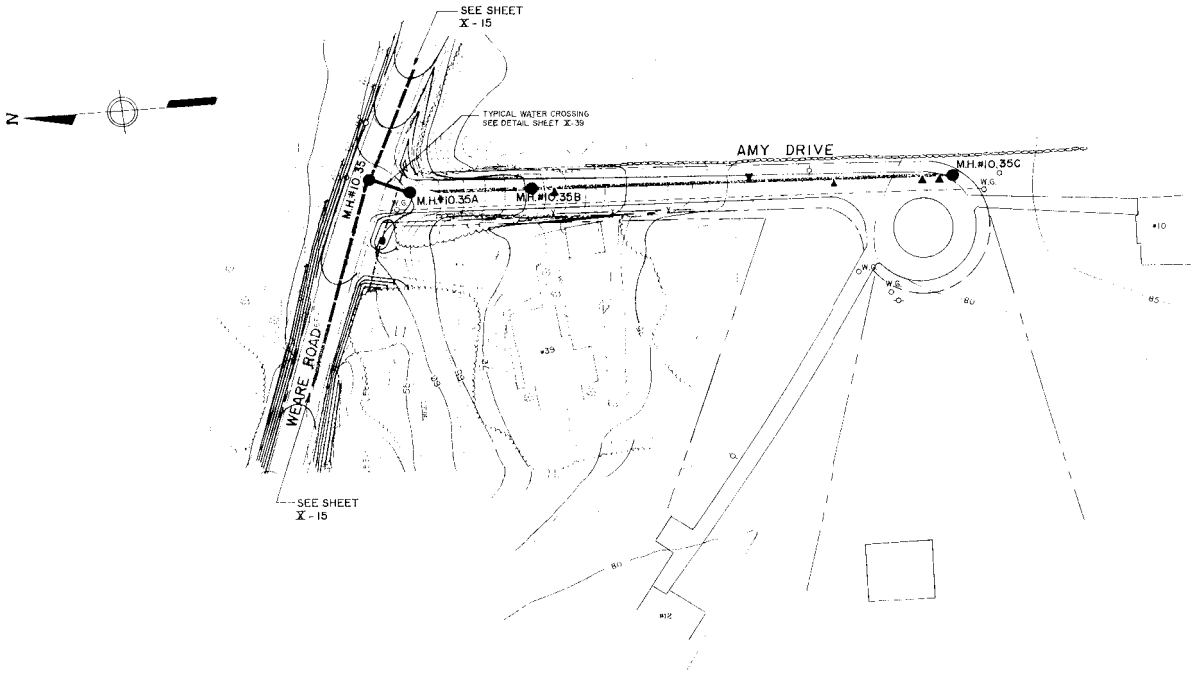
(MANHOLE NO.10.36)-(MANHOLE NO.10.38)

REV. NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
			RECORD DRAWING		BHJ	10/96
1	MEJ	10/96	BHJ			
	ISSUED FOR APPROVAL				BHJ	9/94
0	SDC	9/94	BHJ	RDK		

PROJECT SUPERVISOR _____ APPROVED _____

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

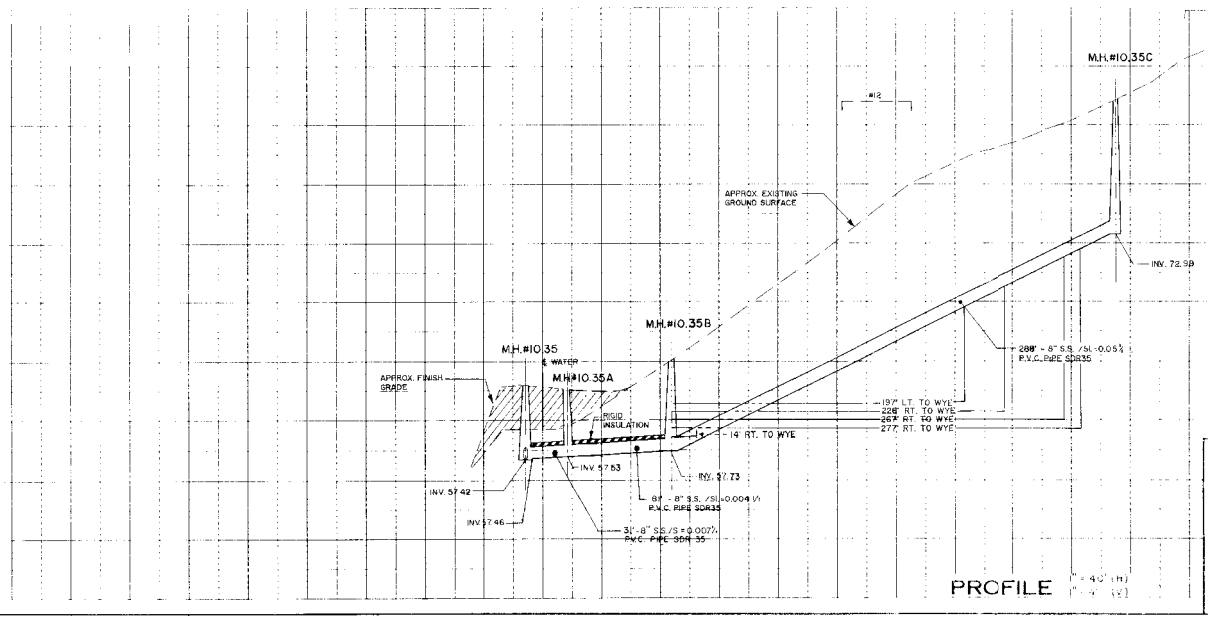
JOB NO. 1444/8704 CONTRACT NO. X SHEET 16 OF 40



CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL EXISTING STRUCTURES AND SITE FEATURES INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'



PROFILE (1" = 40' H.) (1" = 4' V.)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

AMY DRIVE
(MANHOLE NO.10.35) - (MANHOLE NO.10.35)

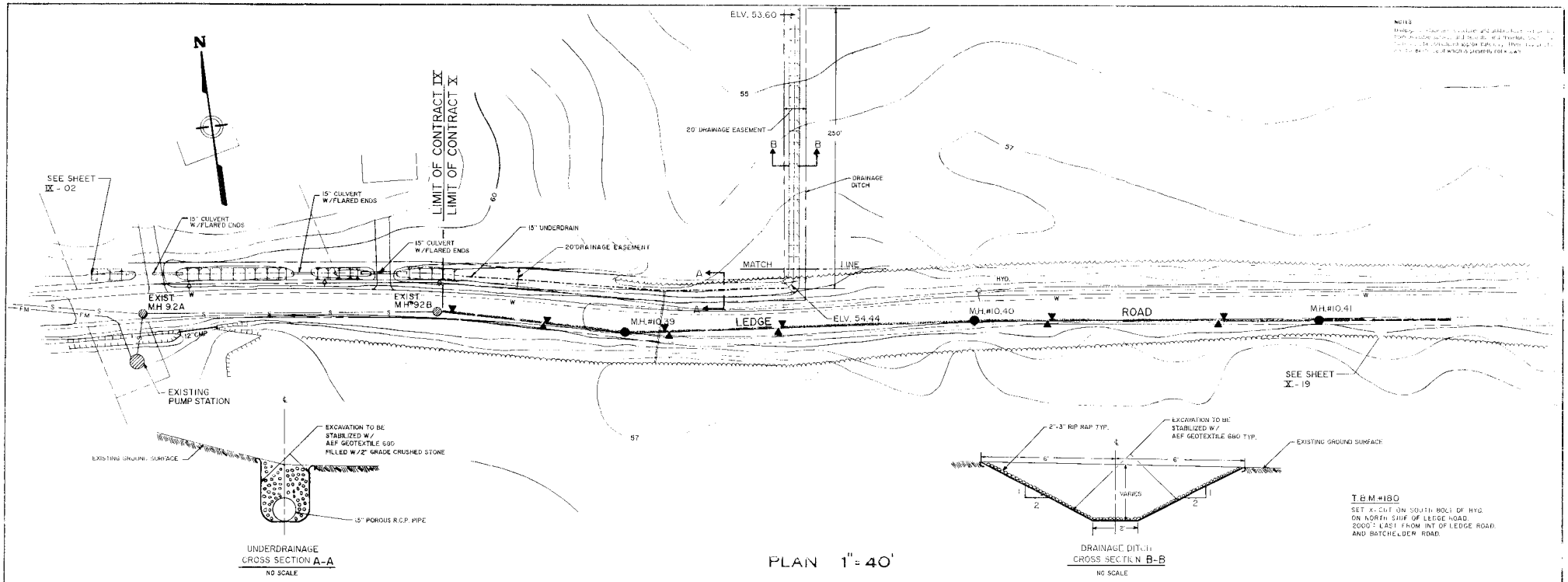
2	RECORD DRAWING				BHJ	10/96
	MEJ	10/96	BHJ			
1	GENERAL REVISIONS				BHJ	2/95
	WK	2/95	JFC	BHJ		
0	ISSUED FOR APPROVAL				BHJ	9/94
	SDC	9/94	BHJ	RDK		
NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR

APPROVED

Jones & Beach / Stearns & Wheler
CIVIL ENGINEERS - CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

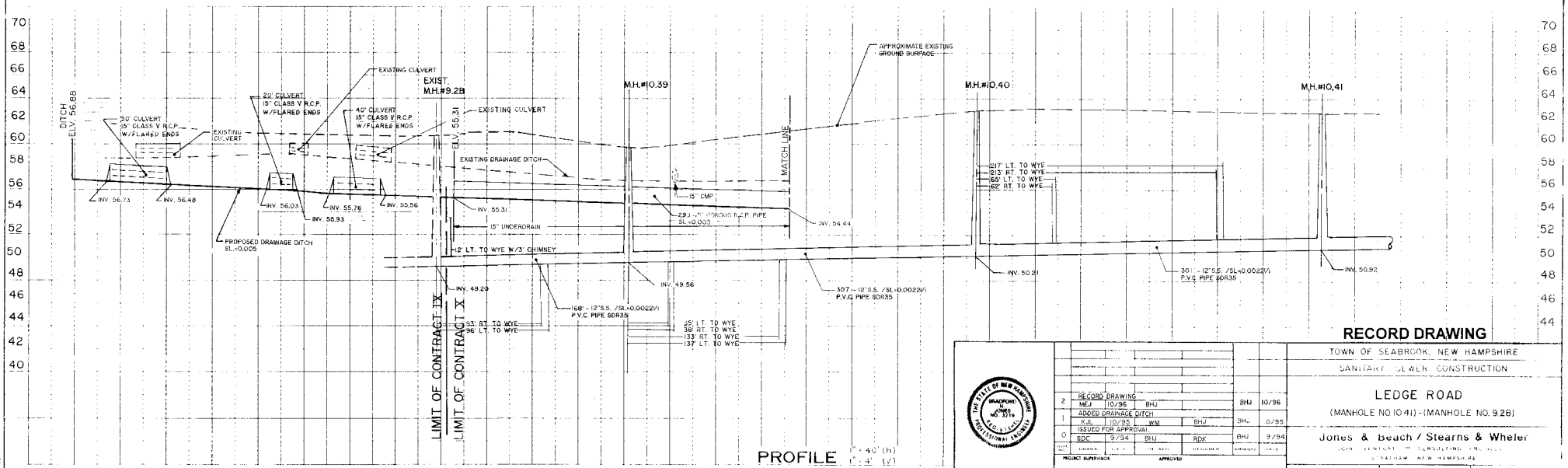
JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 17 OF 40



UNDERDRAINAGE CROSS SECTION A-A
NO SCALE

PLAN 1" = 40'

DRAINAGE DITCH CROSS SECTION B-B
NO SCALE



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

2	RECORD DRAWING	MEJ	10/96	BHJ		BHJ	10/96
1	ADDED DRAINAGE DITCH	KJL	10/95	WM	BHJ	BHJ	6/95
0	ISSUED FOR APPROVAL	SDC	9/94	BHJ	RDK	BHJ	9/94
		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

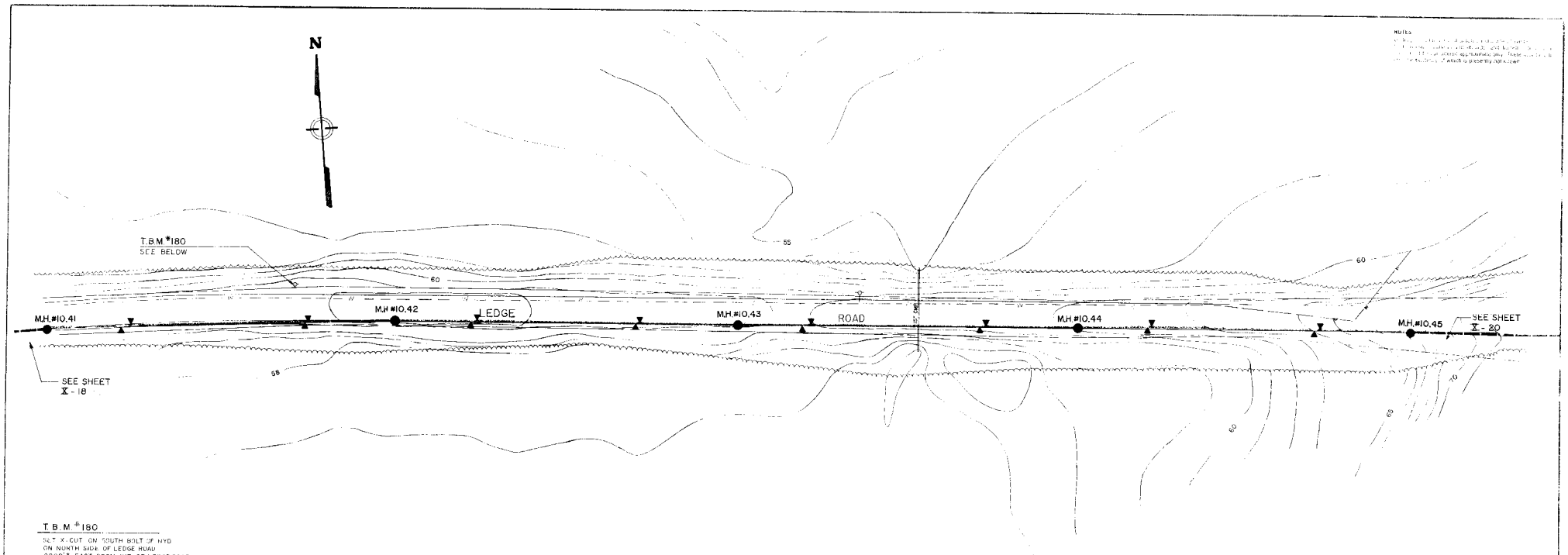
THE STATE OF NEW HAMPSHIRE BRADFORD H. JONES NO. 3019 REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION

LEDGE ROAD
(MANHOLE NO.10.41) - (MANHOLE NO. 9.2B)

Jones & Beach / Stearns & Wheler
CIVIL ENGINEERS — CONSULTING ENGINEERS
GRAHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 18 OF 40

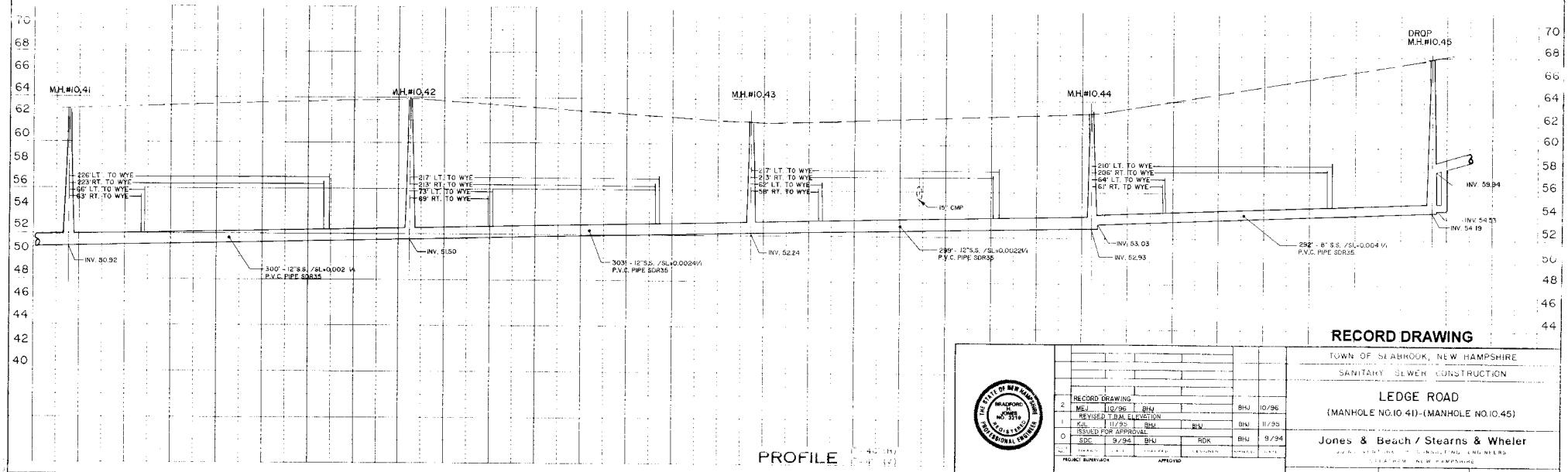


T.B.M.#180

SET X-CUT ON SOUTH BOLT OF HYD ON NORTH SIDE OF LEDGE ROAD 2000'± EAST FROM INT. OF LEDGE ROAD AND BATCHELDER ROAD

ELEV. 63.76

PLAN 1"=40'



PROFILE (H) 1"=40' (V) 1"=4'

RECORD DRAWING

2	RECORD DRAWING				BHJ	10/96
	MEJ	10/96	BHJ			
1	REVISED T.B.M. ELEVATION					
	KdL	11/95	BHJ	BHJ	BHJ	11/95
0	ISSUED FOR APPROVAL					
	SDC	9/94	BHJ	RDK	BHJ	9/94
NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR APPROVED

THE STATE OF NEW HAMPSHIRE BRADFORD JONES No. 7516 REGISTERED PROFESSIONAL ENGINEER

TOWN OF SEABROOK, NEW HAMPSHIRE

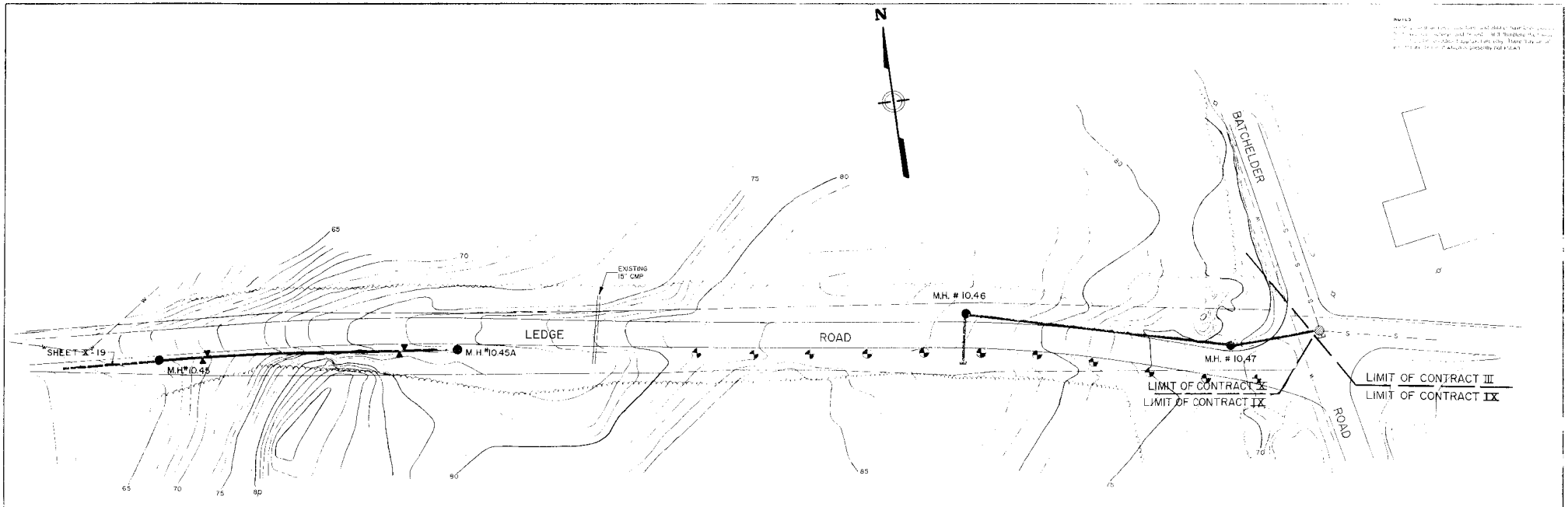
SANITARY SEWER CONSTRUCTION

LEDGE ROAD

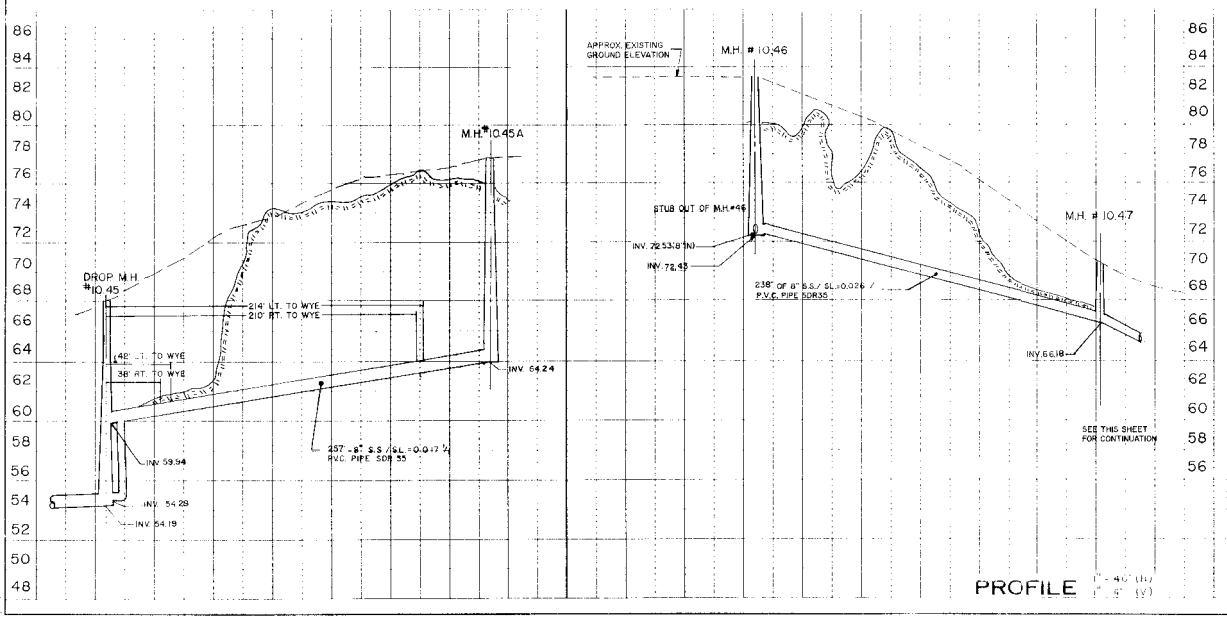
(MANHOLE NO.10.41)-(MANHOLE NO.10.45)

Jones & Beach / Stearns & Wheler

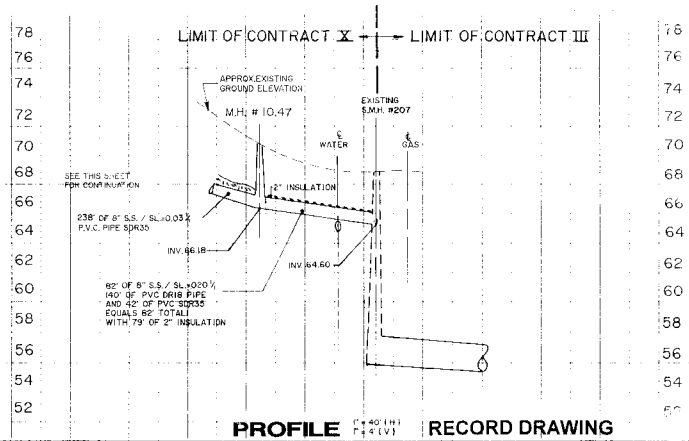
JOB NO. 1444/8704 CONTRACT NO. X SHEET 19 OF 40



PLAN 1"=40'



PROFILE (H) 1"=40' (V) 1"=4'


LIMIT OF CONTRACT X
LIMIT OF CONTRACT III
APPROX. EXISTING GROUND ELEVATION
M.H. # 10.47
EXISTING S.M.H. #207
WATER
GAS
SEE THIS SHEET FOR CONTINUATION
2" INSULATION
238' OF 8" S.S. / SL.=0.03 ½ P.V.C. PIPE SDR35
INV. 66.18
INV. 64.60
82' OF 8" S.S. / SL.=0.20 ½ 140' OF PVC DR18 PIPE AND 42' OF PVC SDR35 EQUALS 82' TOTAL WITH 79' OF 2" INSULATION

PROFILE (H) 1"=40' (V) 1"=4' **RECORD DRAWING**

STATE OF NEW HAMPSHIRE BRADFORD M. JONES NO. 5376 REGISTERED PROFESSIONAL ENGINEER

	RECORD DRAWING	MEJ	10/96	BHJ	10/96
0	ISSUED FOR APPROVAL	SDC	9/94	BHJ	9/94

PROJECT SUPERVISOR APPROVED

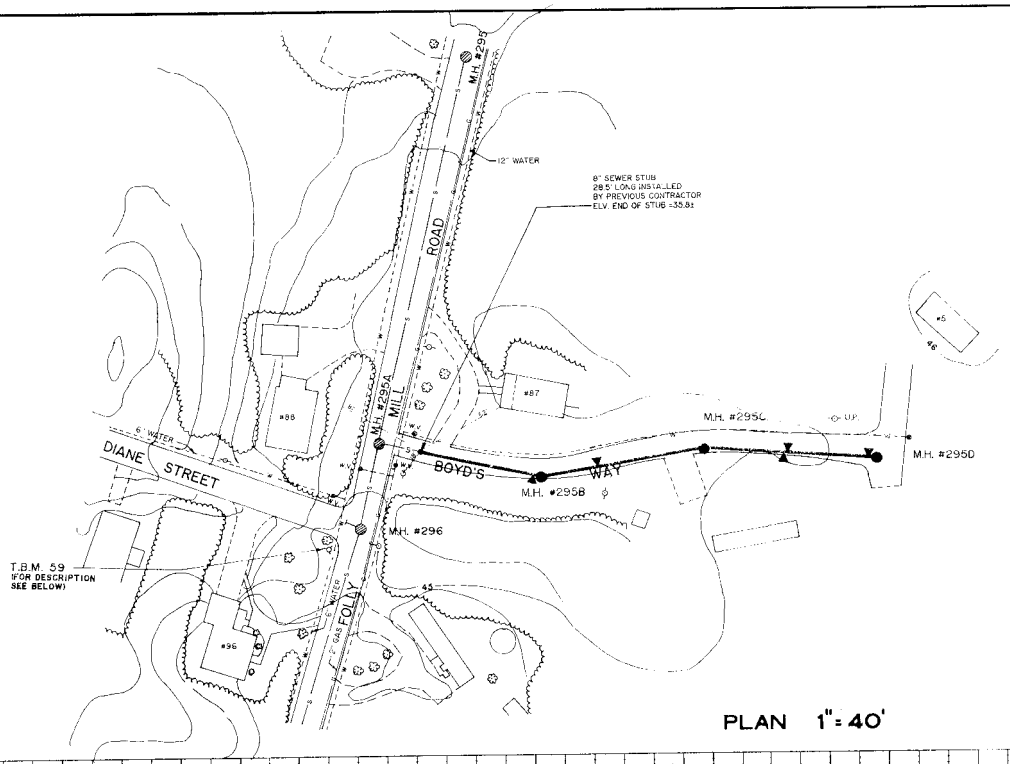
TOWN OF SEABROOK NEW HAMPSHIRE

LEDGE ROAD
(MANHOLE NO.10.45)-(MANHOLE NO.1045A)
(MANHOLE NO.10.46)-(MANHOLE NO.207)

Jones & Beach / Stearns & Wheler
CIVIL STRUCTURAL CONSULTING ENGINEERS
PORTSMOUTH, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 20 OF 40

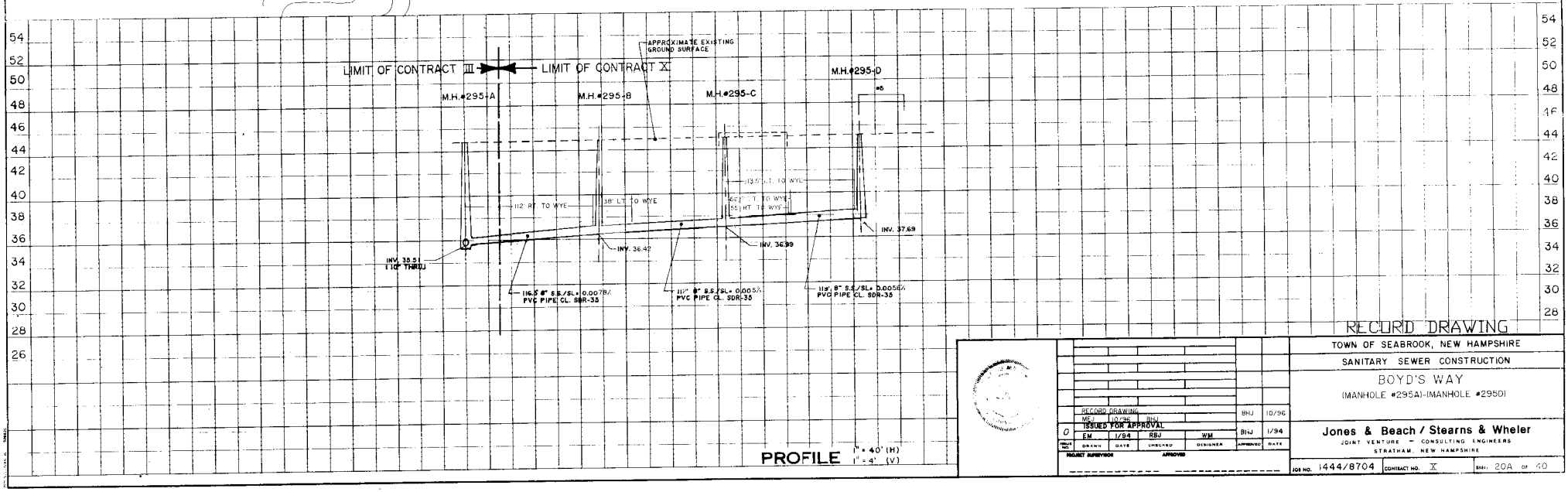
NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others the existence of which is presently not known.



T.B.M. 59
X-CUT ON S.E. BOLT DARLING HYD. N.E. CORNER INTERSECTION OF FOLLY MILL RD. AND DIANE ST. APPROX. .45 MILES N.W. ALONG FOLLY MILL RD. FROM INT. OF RTE. U.S. 1

ELEV. 47.02

PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

NO.						
	RECORD DRAWING	MEJ	10/96	BHJ	BHJ	10/96
0	ISSUED FOR APPROVAL	EM	1/94	RBJ	BHJ	1/94
	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

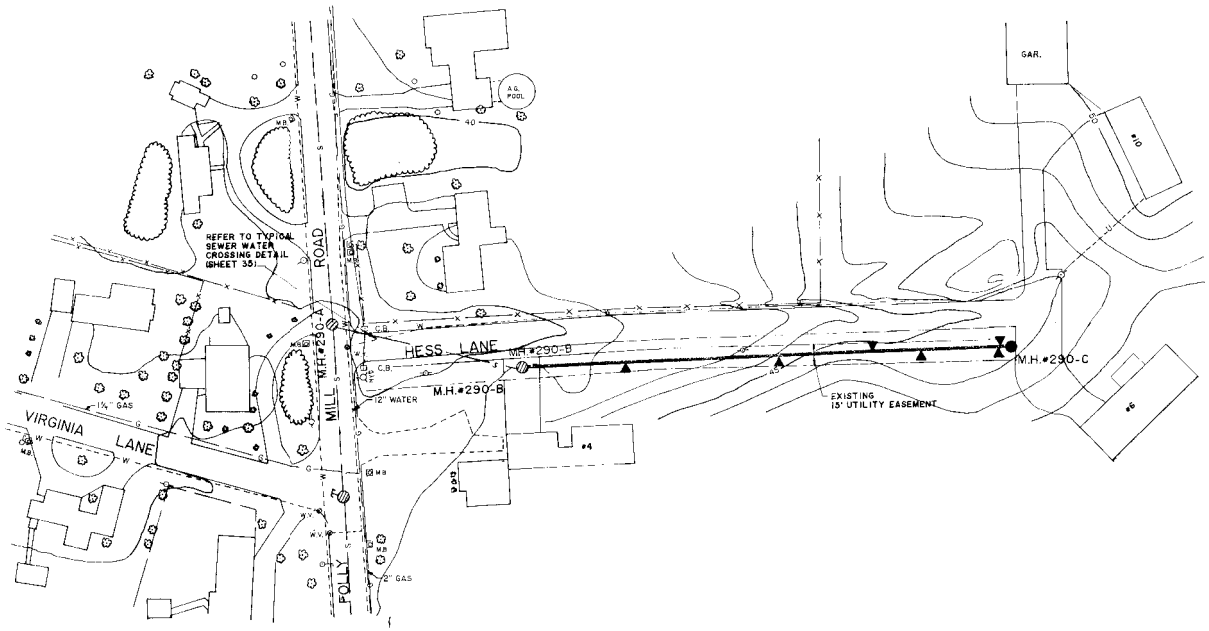
PROJECT SURVEYOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
BOYD'S WAY
(MANHOLE #295A)-(MANHOLE #295D)

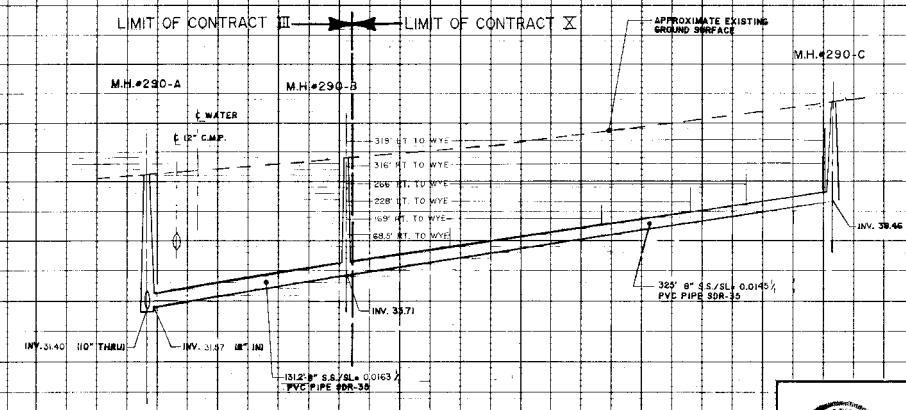
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHT. 20A OF 40

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known



PLAN 1" = 40'



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

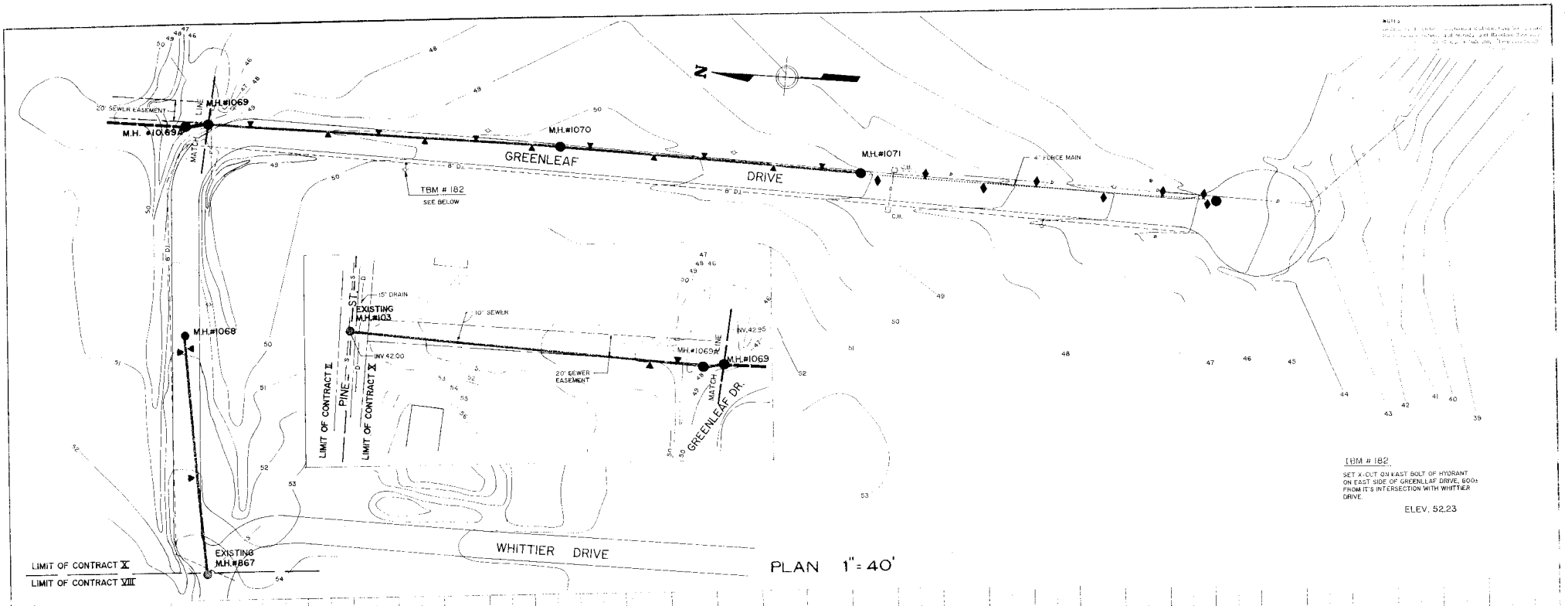
1	RECORD DRAWING	MEJ	10/96	BHJ		BHJ	10/96
0	ISSUED FOR APPROVAL	EM	1/24	RBJ	WM	BHJ	1/94
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

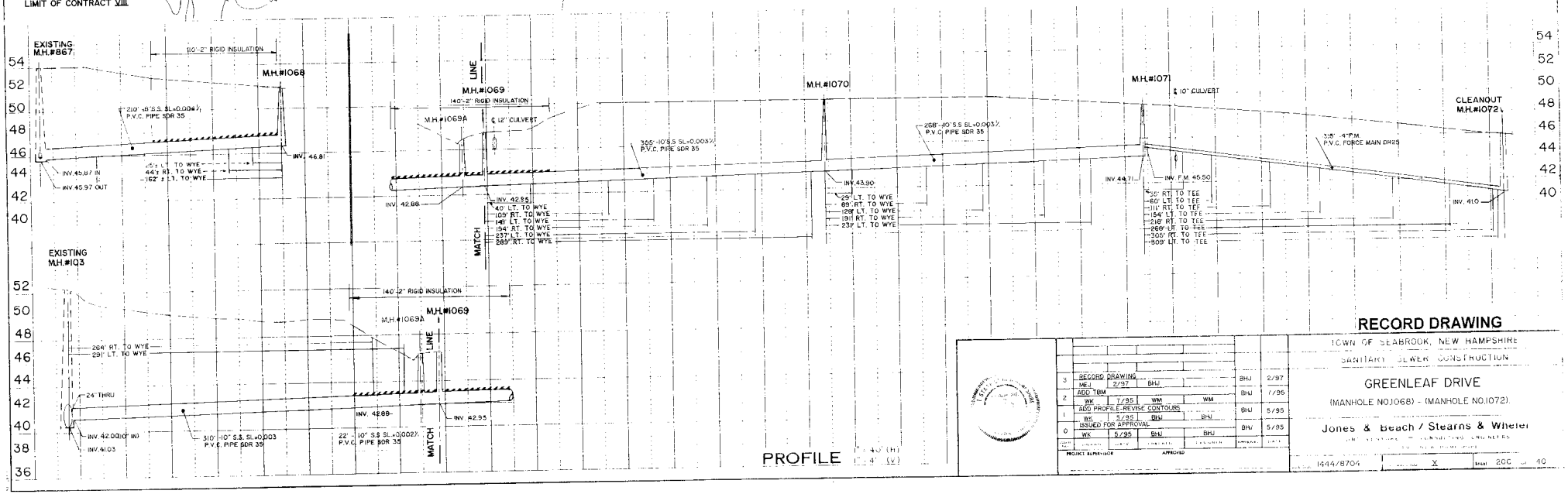
PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SANITARY SEWER CONSTRUCTION
HESS LANE
(MANHOLE #290-A)-(MANHOLE #290-C)

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 208 of [illegible]





RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

GREENLEAF DRIVE

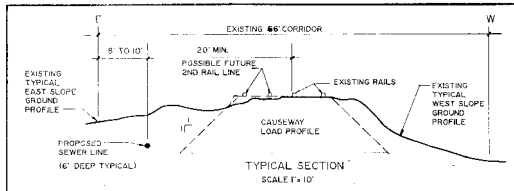
(MANHOLE NO.1068) - (MANHOLE NO.1072)

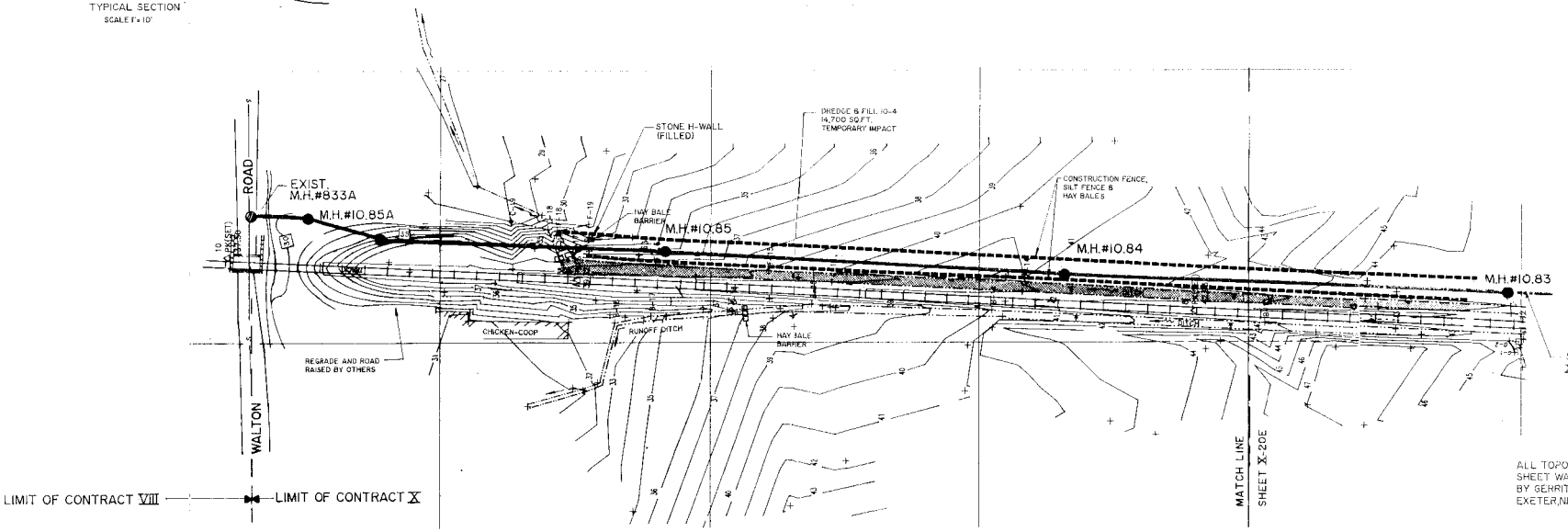
Jones & Beach / Stearns & Wheeler

3	RECORD DRAWING				BHJ	2/97
	MEJ	2/97	BHJ			
2	ADD TBM				BHJ	1/95
	WK	1/95	WM	WM		
1	ADD PROFILE-REVISE CONTOURS				BHJ	5/95
	WK	5/95	BHJ	BHJ		
0	ISSUED FOR APPROVAL				BHJ	5/95
	WK	5/95	BHJ	BHJ		

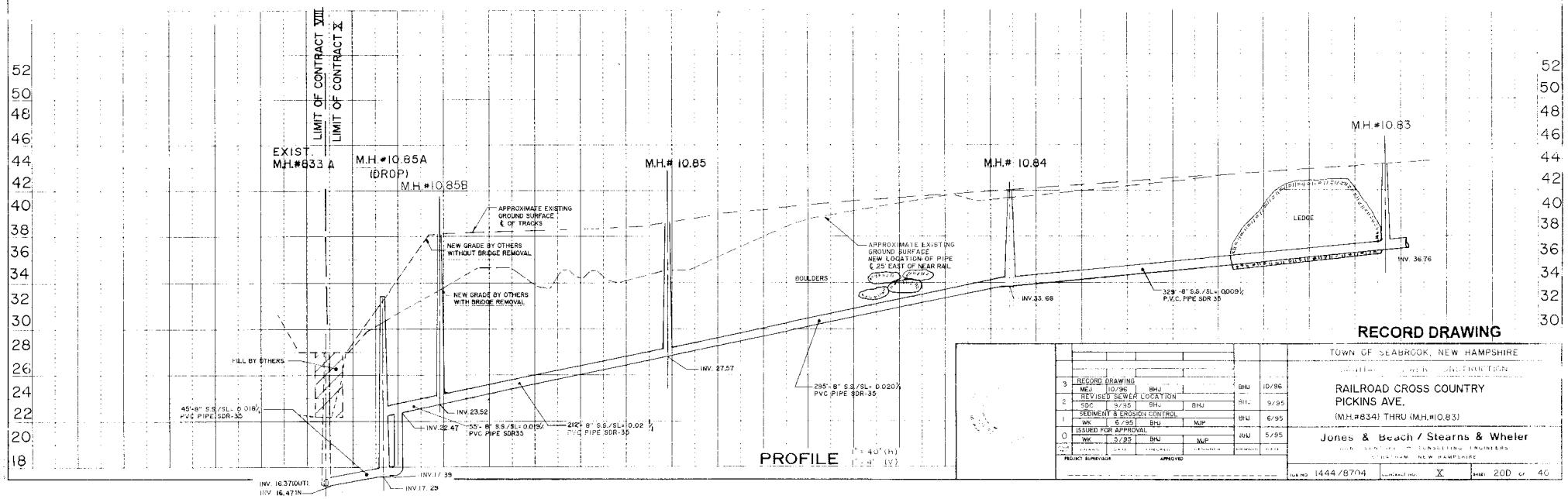
PROJECT SUPERVISOR — APPROVED

1444/8704 — X — SHEET 20C OF 40





ALL TOPO ON THIS
SHEET WAS DEVELOPED
BY GERRIT CONSULTING
EXETER,NH



RECORD DRAWING

3	RECORD DRAWING	MEJ	10/96	BHJ	BHJ	10/96
2	REVISED SEWER LOCATION	SDC	9/95	BHJ	BHJ	9/95
1	SEDIMENT & EROSION CONTROL	WK	6/95	BHJ	MJP	BHJ 6/95
0	ISSUED FOR APPROVAL	WK	5/95	BHJ	MJP	BHJ 5/95

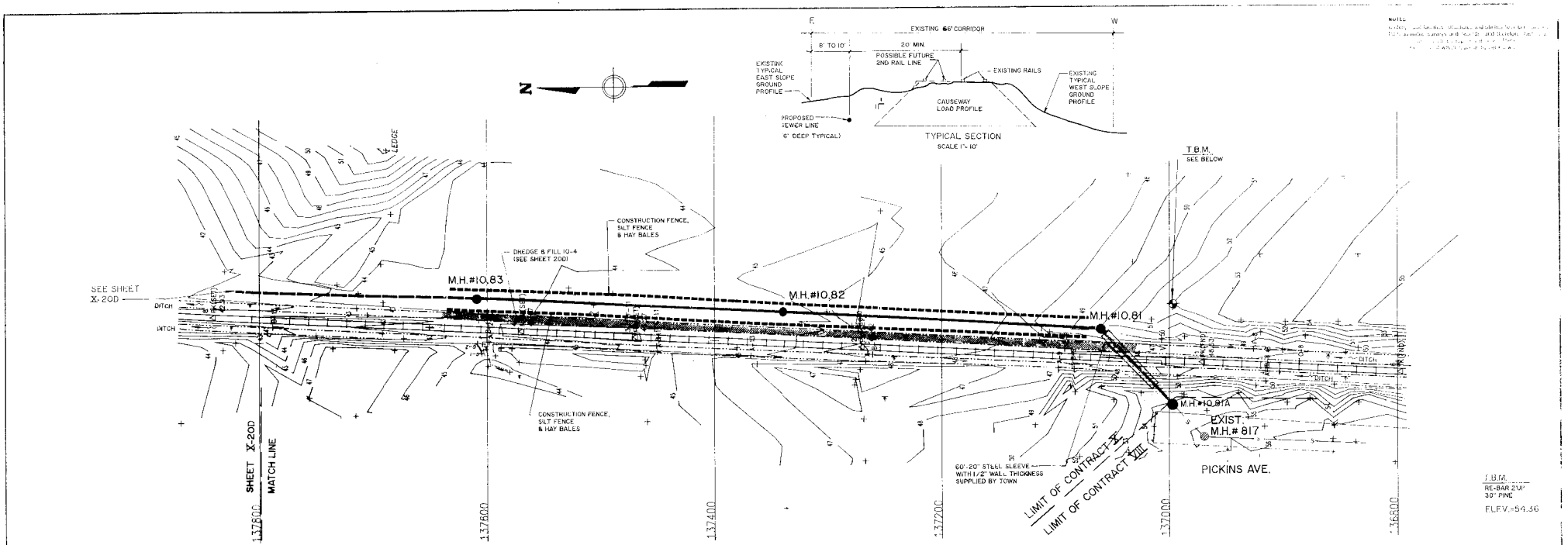
PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

RAILROAD CROSS COUNTRY
PICKINS AVE.
(M.H.#834) THRU (M.H.#10.83)

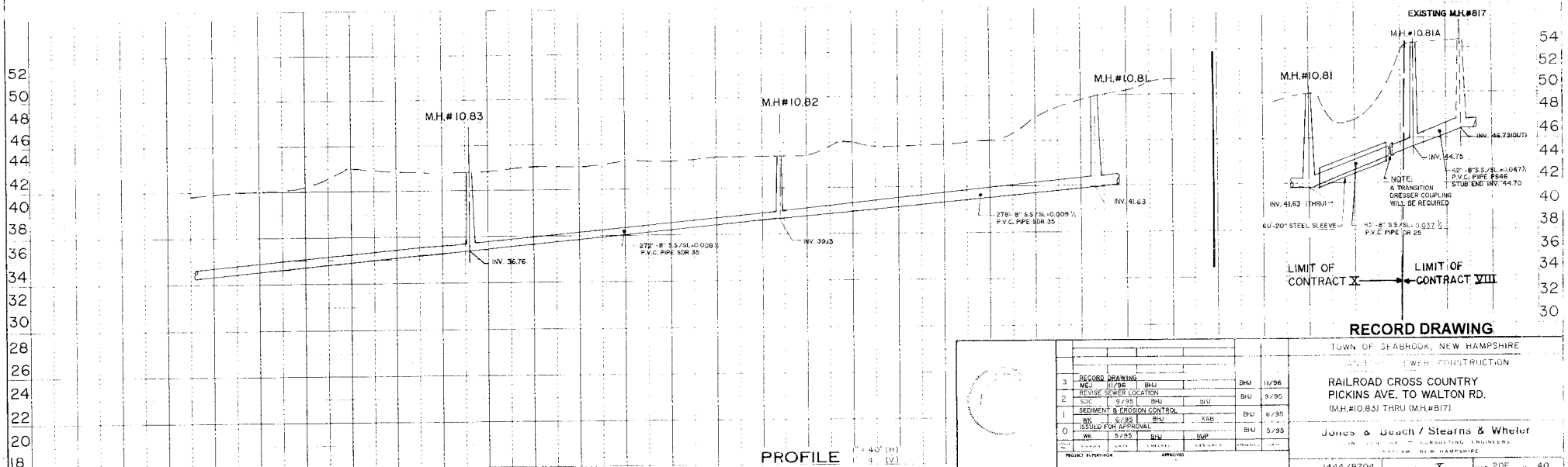
Jones & Beach / Stearns & Wheler
CIVIL STRUCTURAL CONSULTING ENGINEERS
CONCORD, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 20D OF 40



PLAN 1"= 40'

ALL TOPO ON THIS SHEET WAS DEVELOPED BY GERRIT CONSULTING - EXETER, NH



PROFILE 1" = 40' (H) 1" = 4 (V)

RECORD DRAWING

3	RECORD DRAWING	MEJ	11/96	BHJ		11/96
2	REVISE SEWER LOCATION	SDC	9/95	BHJ	BHJ	9/95
1	SEDIMENT & EROSION CONTROL	WK	6/95	BHJ	KAB	6/95
0	ISSUED FOR APPROVAL	WK	5/95	BHJ	MVP	5/95
NO.		DRAWN		CHECKED		DATE

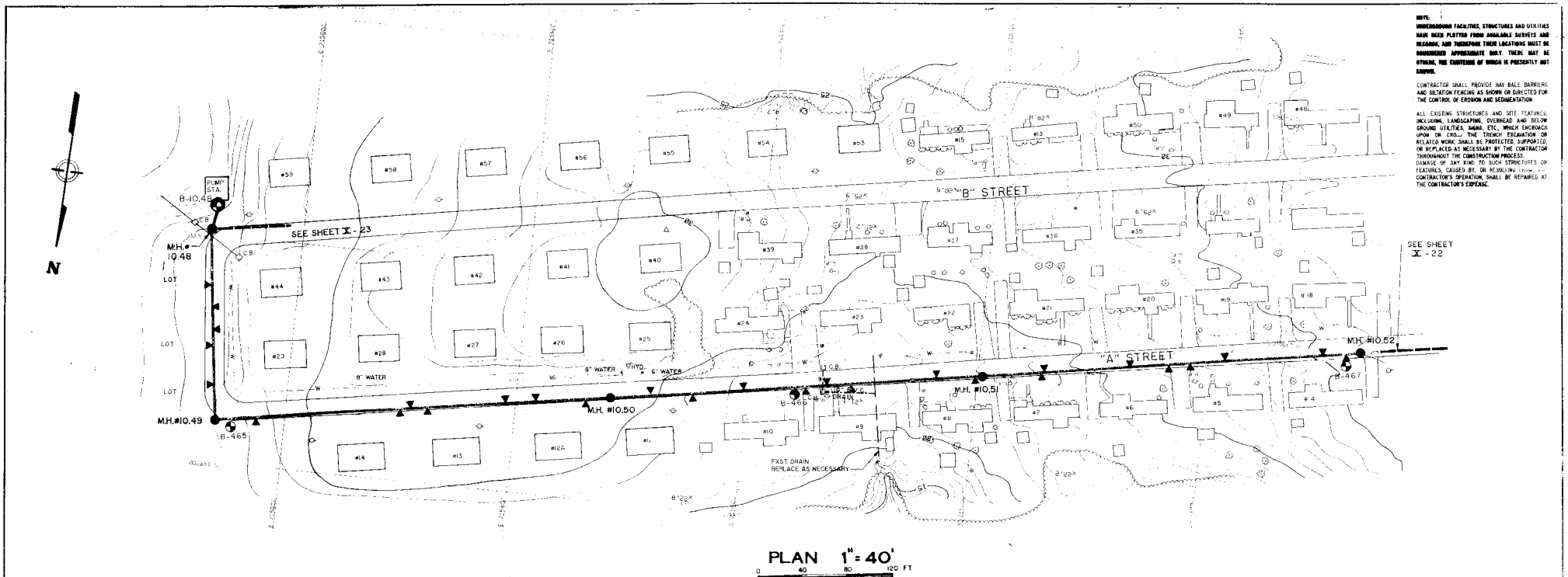
PROJECT SUPERVISOR APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
SEWER CONSTRUCTION

RAILROAD CROSS COUNTRY
PICKINS AVE. TO WALTON RD.
(M.H.#10.83) THRU (M.H.#817)

Jones & Beach / Stearns & Wheler
ENGINEERS — CONSULTING ENGINEERS
EAST SWANZEY, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 20E OF 40

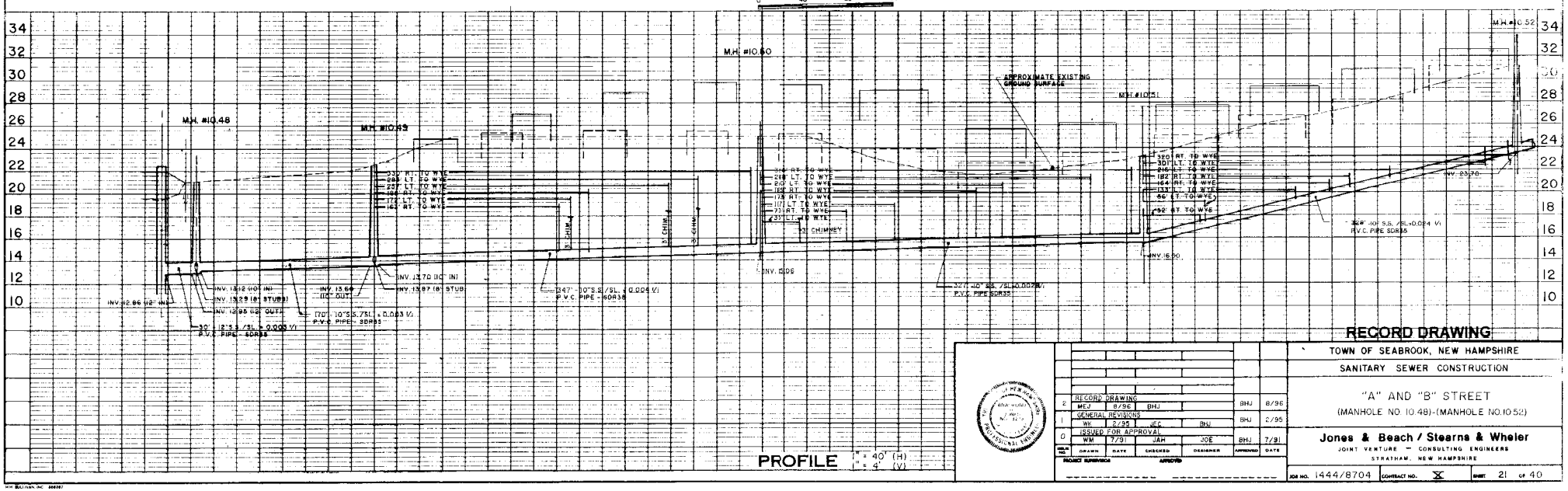


NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CRO... THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED SUPPORTED OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

PLAN 1" = 40'
0 40 80 120 FT


M.H. #10.48
M.H. #10.49
M.H. #10.50
M.H. #10.51
M.H. #10.52
APPROXIMATE EXISTING GROUND SURFACE
INV. 12.66 (12" IN)
INV. 13.12 (10" IN)
INV. 13.29 (8" STUB)
INV. 12.95 (12" OUT)
INV. 13.66 (10" OUT)
INV. 13.87 (8" STUB)
INV. 13.70 (10" IN)
INV. 13.05
INV. 15.90
INV. 23.70
30' 12" S.S. /SL = 0.003 V/ P.V.C. PIPE - SDR35
170' 10" S.S. /SL = 0.003 V/ P.V.C. PIPE - SDR35
347' 10" S.S. /SL = 0.004 V/ P.V.C. PIPE - SDR35
527' 10" SS. /SL=0.007 V/ P.V.C. PIPE SDR35
36" I.D. MH
4' CHIM.
33 CHIMNEY
330' RT. TO WYE
288' LT. TO WYE
257' LT. TO WYE
197' LT. TO WYE
175' LT. TO WYE
165' RT. TO WYE
246' RT. TO WYE
218' LT. TO WYE
209' LT. TO WYE
152' RT. TO WYE
123' RT. TO WYE
107' LT. TO WYE
73' RT. TO WYE
31' LT. TO WYE
320' RT. TO WYE
301' LT. TO WYE
216' LT. TO WYE
182' RT. TO WYE
164' RT. TO WYE
133' LT. TO WYE
56' LT. TO WYE
52' RT. TO WYE
36" I.D. S.S. /SL=0.024 V/ P.V.C. PIPE SDR35

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

"A" AND "B" STREET

(MANHOLE NO. 10.48)-(MANHOLE NO.10.52)

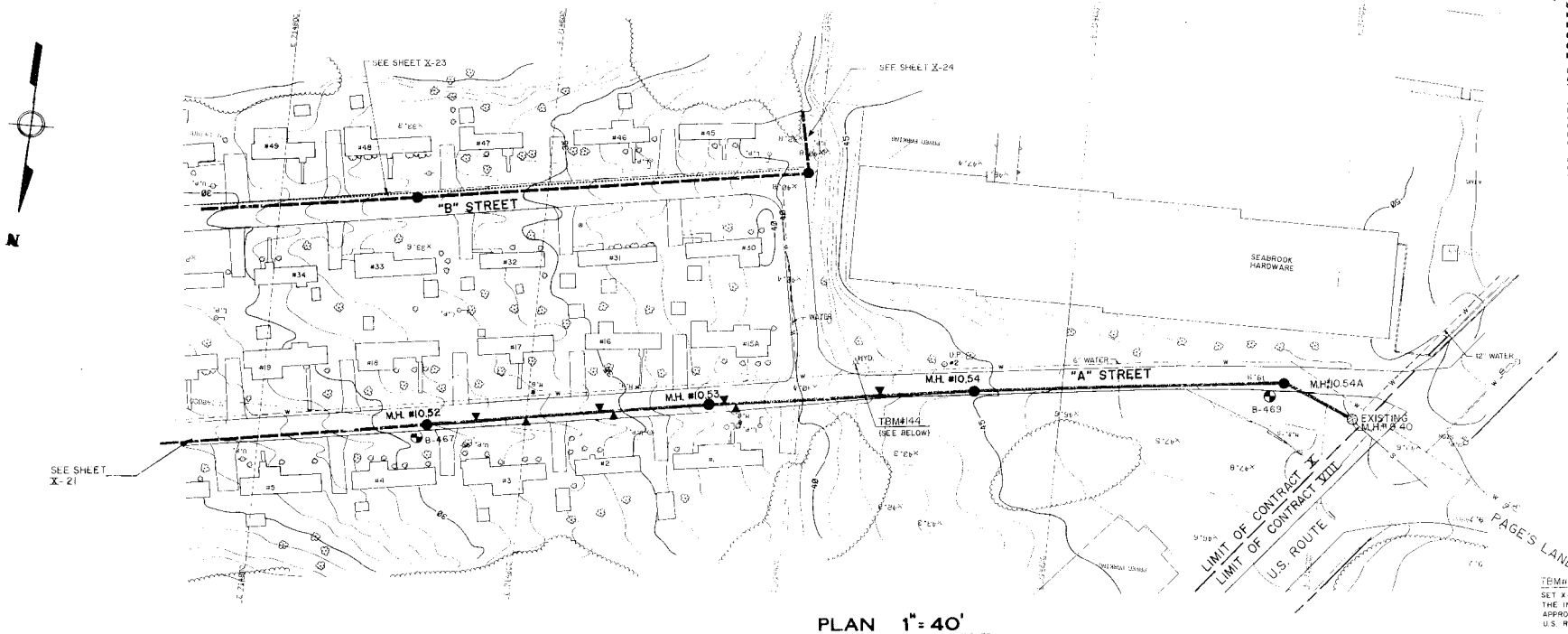
NO.	DESCRIPTION	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
2	RECORD DRAWING	MEJ	8/96	BHJ		BHJ	8/96
1	GENERAL REVISIONS	WK	2/95	JEC		BHJ	2/95
0	ISSUED FOR APPROVAL	WM	7/91	JAH	JOE	BHJ	7/91

PROJECT SUPERVISOR — APPROVED

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 21 OF 40

M.H. SULLIVAN, INC. 000397



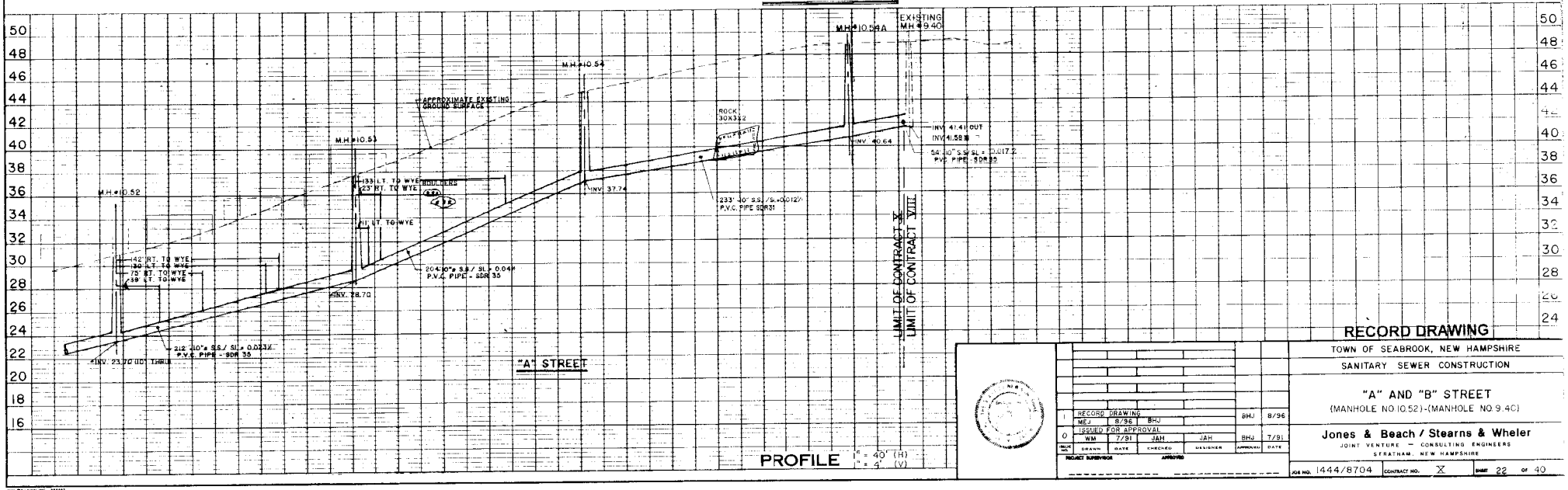
PLAN 1" = 40'
0 40 80 120 FT

NOTE:
UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS, AND THEREFORE THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR ACROSS THE TRENCH EXCAVATION OR RELATED WORK SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

TBM#144
SET X-CUT ON NORTH BOLT OF HYDRANT THE INTERSECTION OF "A" & "B" STREETS APPROX. 440' FROM THE INTERSECTION OF U.S. ROUTE 1 & "A" STREET.
ELEV 43.75



PROFILE 1" = 40' (H)
1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

"A" AND "B" STREET
(MANHOLE NO.10.52)-(MANHOLE NO.9.40)

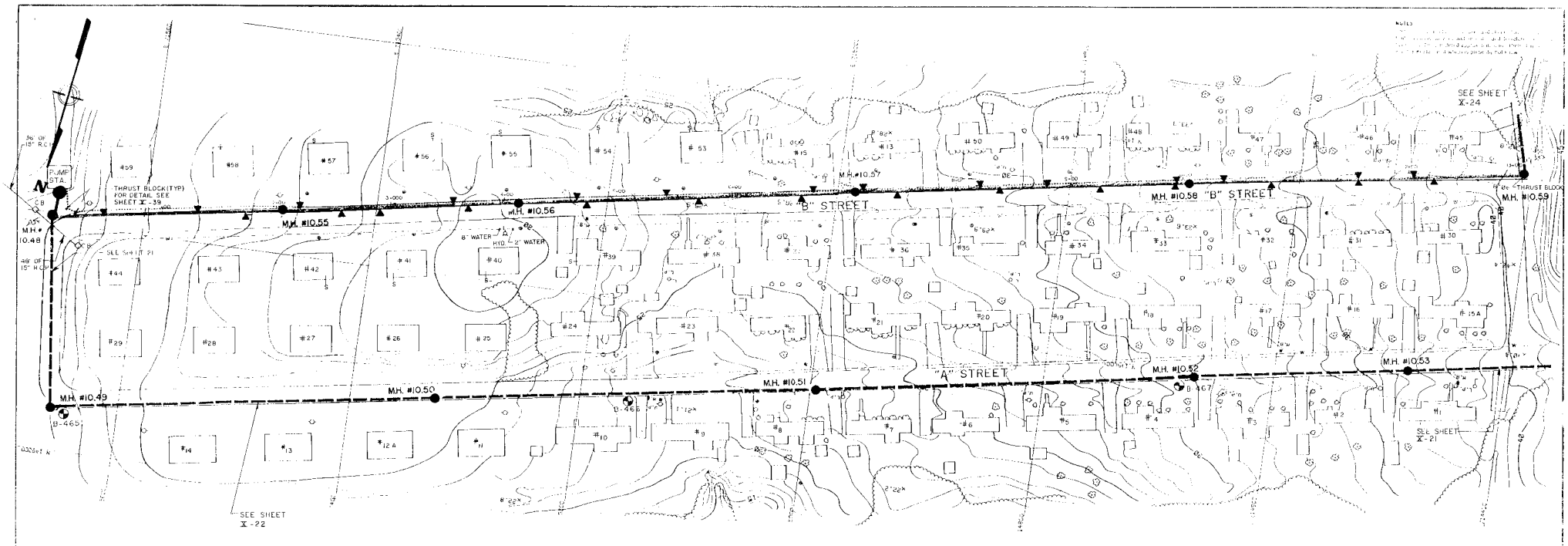
NO.		DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE
1	RECORD DRAWING	MEJ	8/96	BHJ		BHJ	8/96
0	ISSUED FOR APPROVAL	WM	7/91	JAH	JAH	BHJ	7/91

PROJECT SUPERVISOR

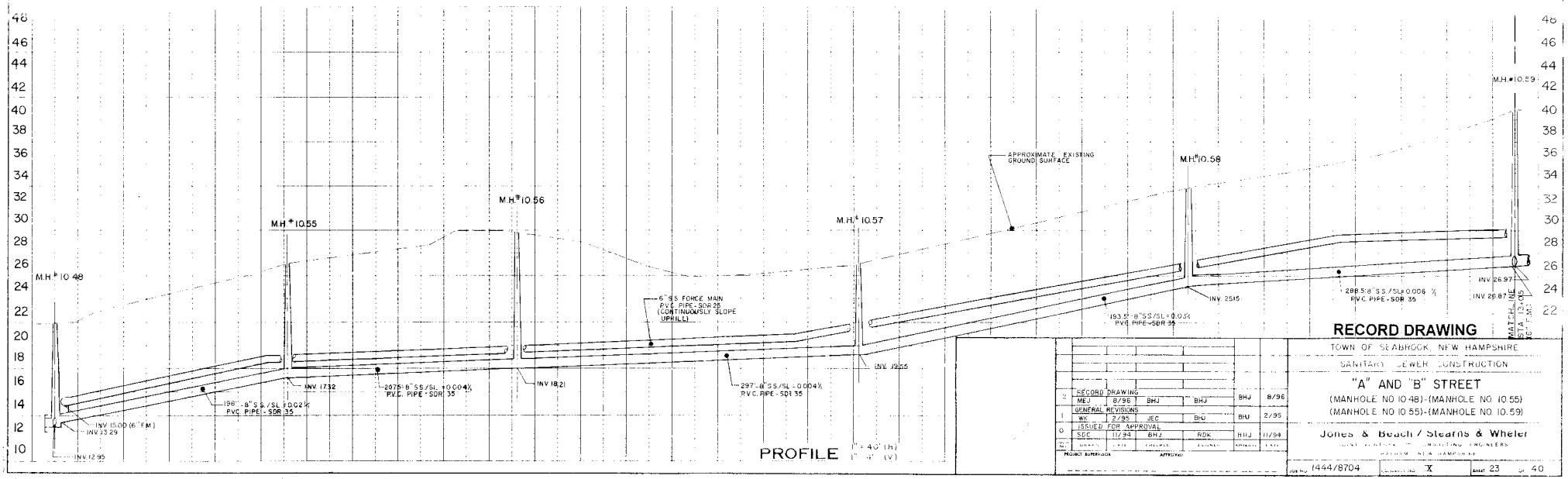
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 22 OF 40

H.W. SULLIVAN INC. 506287



PLAN 1"=40'



PROFILE 1"=40' (H) 1"=4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

"A" AND "B" STREET

(MANHOLE NO 10.48)-(MANHOLE NO. 10.55)

(MANHOLE NO 10.55)-(MANHOLE NO. 10.59)

Jones & Beach / Stearns & Wheler

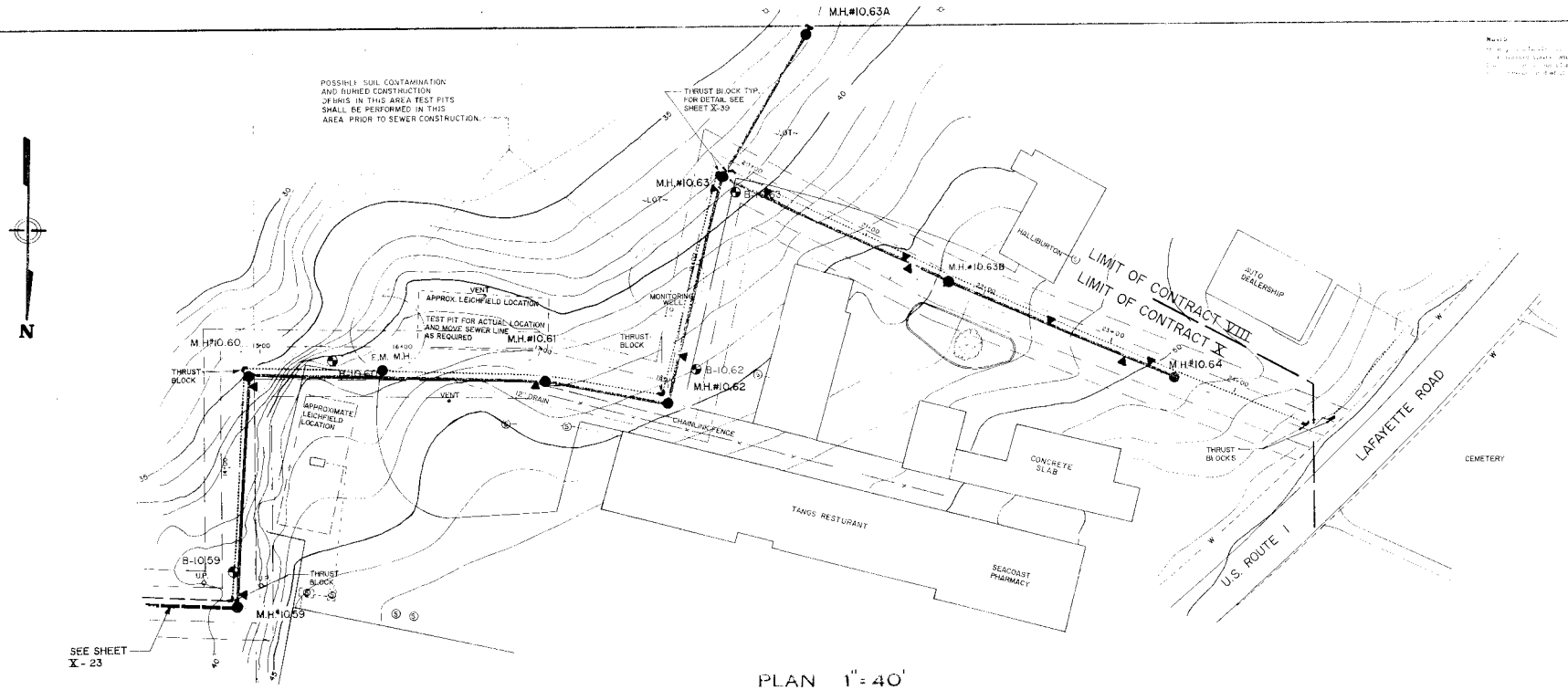
CIVIL ENGINEERS — CONSULTING ENGINEERS

PORTSMOUTH, NEW HAMPSHIRE

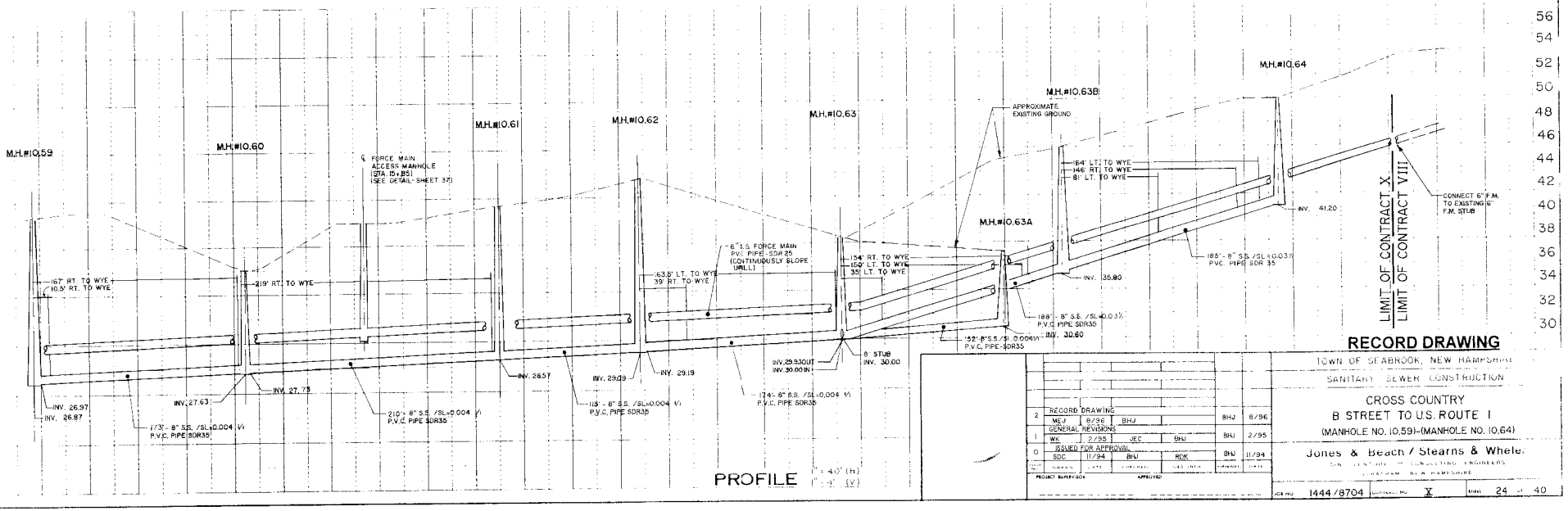
2	RECORD DRAWING	MEJ	8/96	BHJ	BHJ	8/96
1	GENERAL REVISIONS	WK	2/95	JEC	BHJ	2/95
0	ISSUED FOR APPROVAL	SDC	11/94	BHJ	RDK	11/94

PROJECT SUPERVISOR — APPROVED

Job No. 1444/8704 — Drawing No. X — Sheet 23 of 40



PLAN 1" = 40'


M.H.#10.59
M.H.#10.60
M.H.#10.61
M.H.#10.62
M.H.#10.63
M.H.#10.63A
M.H.#10.63B
M.H.#10.64
6" F.M. FORCE MAIN ACCESS MANHOLE (DIA. 8'x8') (SEE DETAIL- SHEET 37)
167' RT. TO WYE
10.5' RT. TO WYE
219' RT. TO WYE
63.8' LT. TO WYE
39' RT. TO WYE
6" S.S. FORCE MAIN P.V.C. PIPE-SDR 25 (CONTINUOUSLY SLOPE UP HILL)
154' RT. TO WYE
150' LT. TO WYE
35' LT. TO WYE
APPROXIMATE EXISTING GROUND
164' LT. TO WYE
146' RT. TO WYE
81' LT. TO WYE
INV. 41.20
CONNECT 6" F.M. TO EXISTING 6" F.M. STUB
185' - 8" S.S. /SL=0.03% P.V.C. PIPE SDR 35
INV. 35.80
188' - 8" S.S. /SL=0.03% P.V.C. PIPE SDR35
INV. 30.60
152' - 8" S.S. /SL=0.004% P.V.C. PIPE-SDR35
INV. 26.97
INV. 26.87
173' - 8" S.S. /SL=0.004 V/ P.V.C. PIPE SDR35
INV. 27.63
INV. 27.73
210'± 8" S.S. /SL=0.004 V/ P.V.C. PIPE SDR35
INV. 28.57
INV. 29.29
INV. 29.19
115' - 8" S.S. /SL=0.004 V/ P.V.C. PIPE SDR35
INV. 29.93 OUT
INV. 30.00 IN
174' - 8" S.S. /SL=0.004 V/ P.V.C. PIPE SDR35
6" STUB INV. 30.00
LIMIT OF CONTRACT X
LIMIT OF CONTRACT VIII

PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CROSS COUNTRY

B STREET TO U.S. ROUTE 1

(MANHOLE NO. 10.59)-(MANHOLE NO. 10.64)

2	RECORD DRAWING					BHJ	8/96
	MEJ	8/96	BHJ				
1	GENERAL REVISIONS					BHJ	2/95
	WK	2/95	JEC	BHJ			
0	ISSUED FOR APPROVAL					BHJ	11/94
	SDC	11/94	BHJ	RDK			

PROJECT SURVEYOR APPROVED

Jones & Beach / Stearns & Wheler

ENGINEERS — CONSULTING ENGINEERS

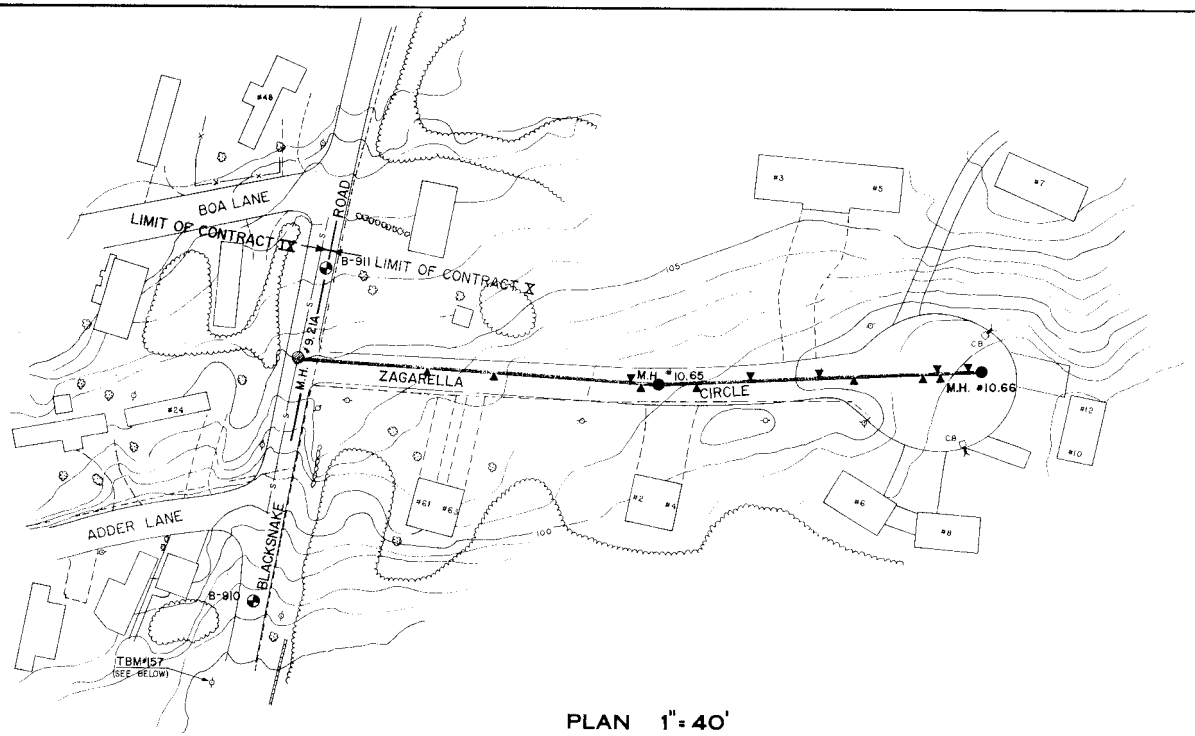
PORTSMOUTH, NEW HAMPSHIRE

JOB NO. 1444/8704 CONTRACT NO. X SHEET 24 OF 40

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC. WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

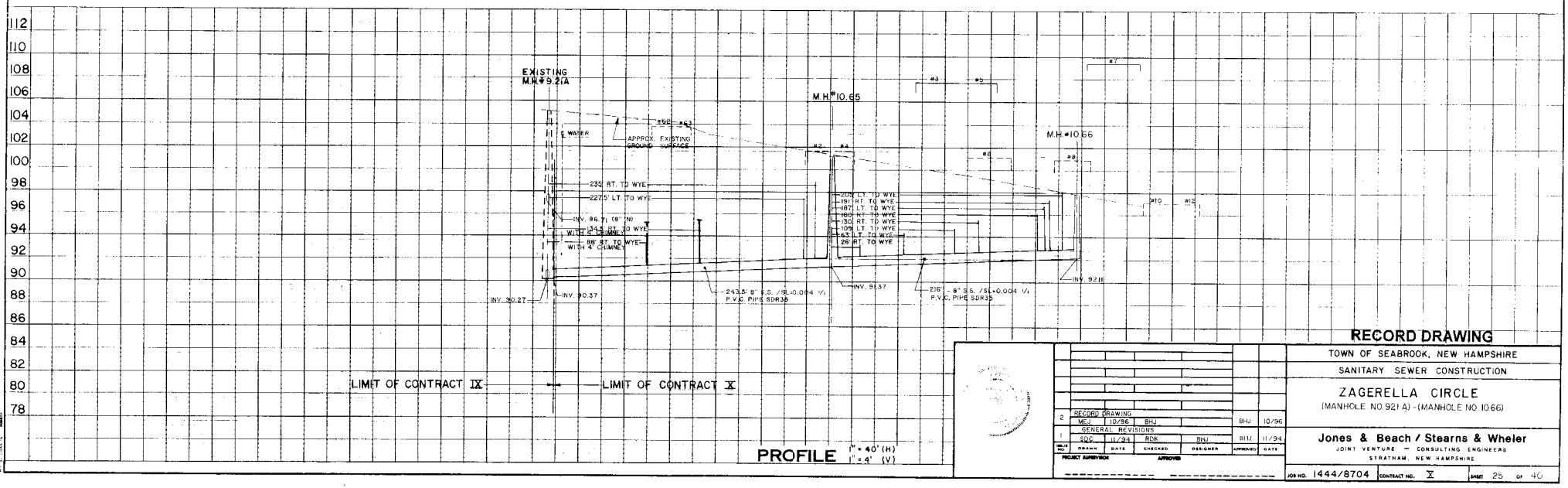


T.B.M #157

20 PENNY NAIL + WASHER SET IN NORTH FACE OF UTILITY POLE (WITH #9350) ON NORTH SIDE OF ROAD OPPOSITE #7 BLACKSNAKE ROAD

ELEV. 96.06

PLAN 1" = 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

2	RECORD DRAWING				BHJ	10/96
	MEJ	10/96	BHJ			
1	GENERAL REVISIONS				BHJ	11/94
	SDS	11/94	RDK	BHJ		
SHEET NO.	DRAWN	DATE	CHECKED	DESIGNER	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

ZAGERELLA CIRCLE

(MANHOLE NO.921A) - (MANHOLE NO.10.66)

Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

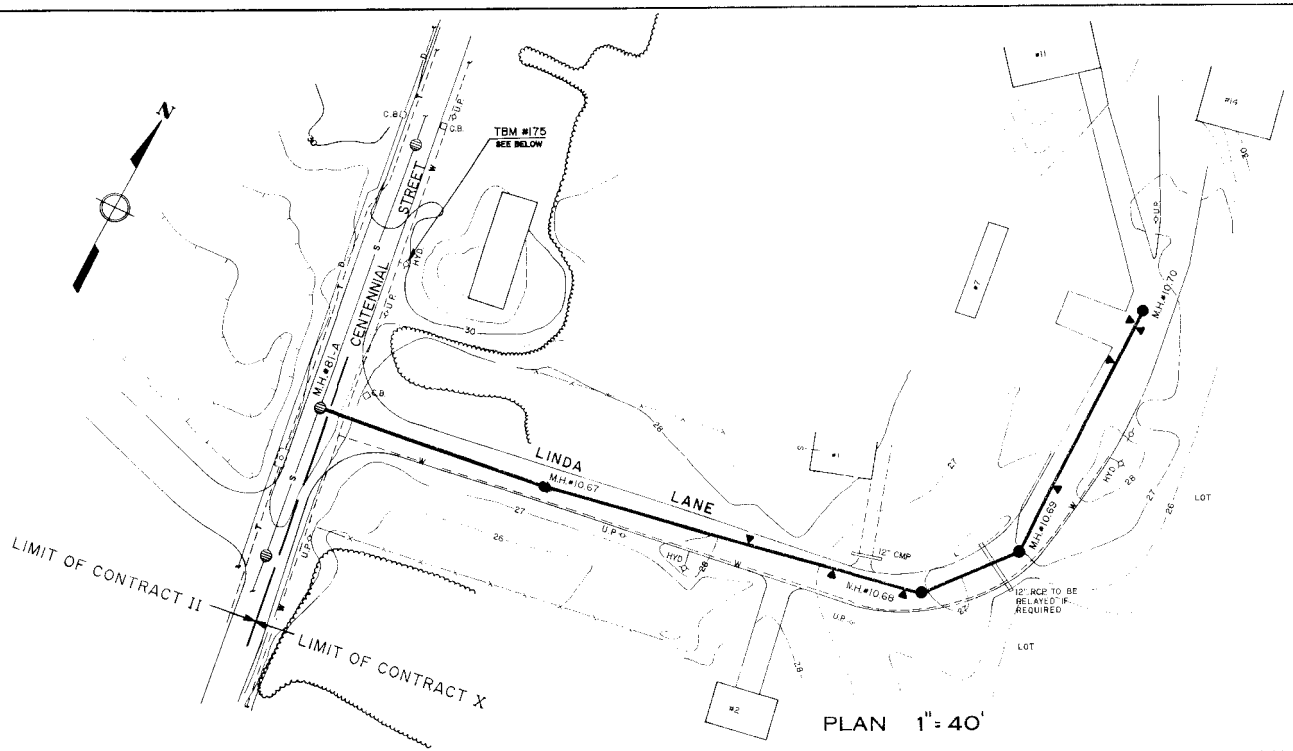
JOB NO. 1444/8704 CONTRACT NO. X SHEET 25 OF 40

NOTES:

Underground and above ground structures and utilities have been plotted from available surveys and records and therefore the exact location of such structures may vary from that shown hereon. Additional structures not shown may be encountered which is typically the case.

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION

ALL EXISTING STRUCTURES AND SITE FEATURES, INCLUDING, LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

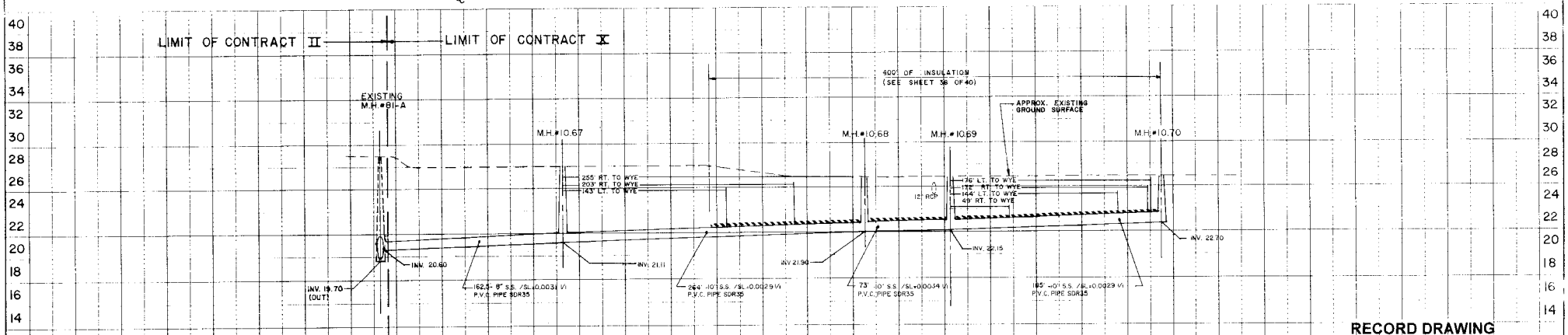


PLAN 1" = 40'

T.B.M.#175

SET X-CUT ON NORTHWEST BOLT OF HYDRANT ON EAST SIDE OF CENTENNIAL STREET, APPROX. 200' NORTH OF ENTRANCE TO THE SEABROOK POLICE STATION.

ELEV. 30.63



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

THE STATE OF NEW HAMPSHIRE — BRADFORD B. STEARNS — NO. 3219 — REGISTERED PROFESSIONAL ENGINEER

1	RECORD DRAWING	MEJ	10/96	BHJ		BHJ	10/96
0	ISSUED FOR APPROVAL	SDC	1/94	RBJ	WM	BHJ	1/94
ISSUE NO.		DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

LINDA LANE

(MANHOLE #81-A) - (MANHOLE # 10.70)

Jones & Beach / Stearns & Wheler

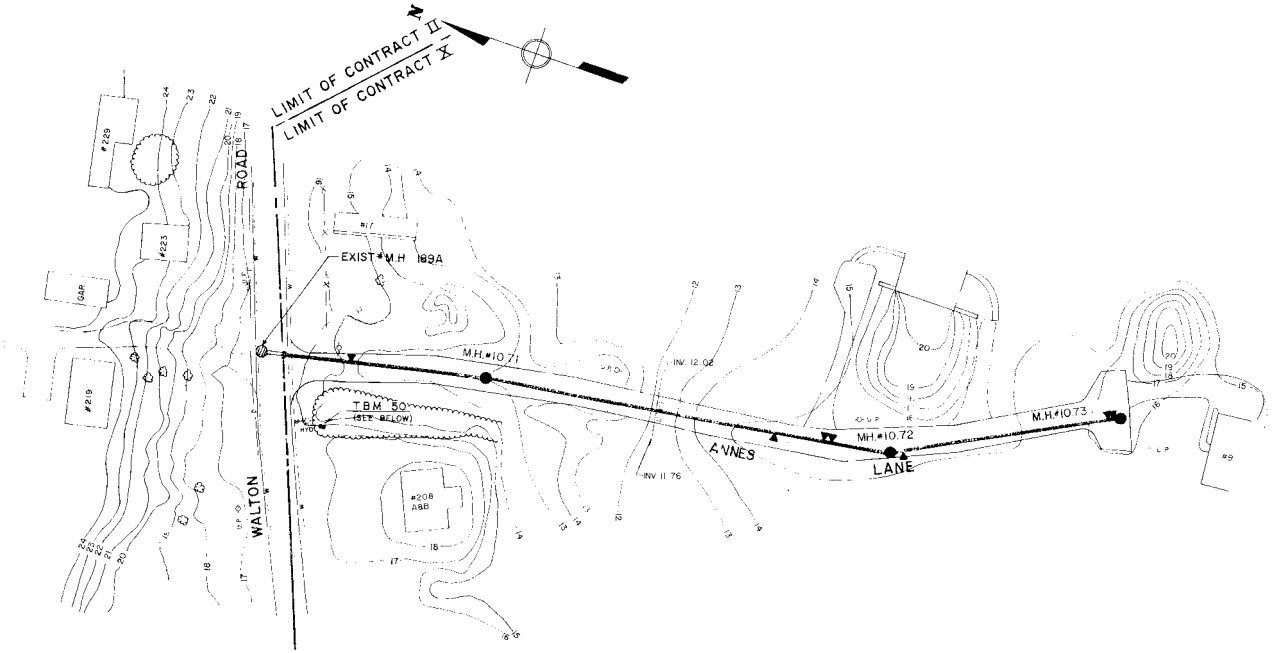
JOINT VENTURE — CONSULTING ENGINEERS

STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 26

CONTRACTOR SHALL PROVIDE HAY BALE BARRIERS AND SILTATION FENCING AS SHOWN OR DIRECTED FOR THE CONTROL OF EROSION AND SEDIMENTATION.

ALL EXISTING STRUCTURES AND SURFACE IMPROVEMENTS INCLUDING LANDSCAPING, OVERHEAD AND BELOW GROUND UTILITIES, SIGNS, ETC., WHICH ENCROACH UPON OR CROSS THE TRENCH EXCAVATION OR RELATED WORK, SHALL BE PROTECTED, SUPPORTED, OR REPLACED AS NECESSARY BY THE CONTRACTOR THROUGHOUT THE CONSTRUCTION PROCESS. DAMAGE OF ANY KIND TO SUCH STRUCTURES OR FEATURES, CAUSED BY, OR RESULTING FROM, THE CONTRACTOR'S OPERATION, SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

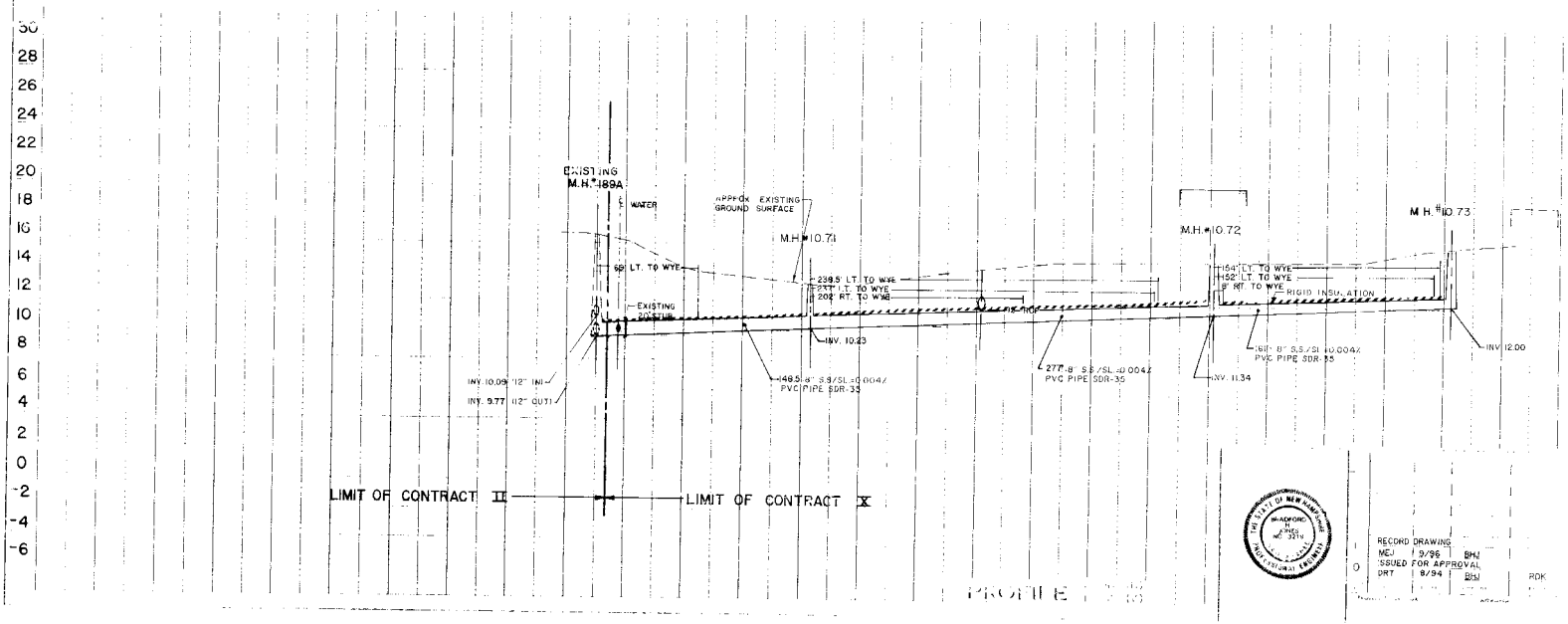


T.B.M. 50

60d NAIL IN NORTHERNMOST 18" SUGAR MAPLE OF TWO-BOLE, APPROX. 1.0 MI. EAST OF WALTON RD./U.S. ROUTE 1 INTERSECTION ITREE IS LOCATED ON SOUTH SIDE OF WALTON RD., AND JUST EAST OF HOUSE No. 208)

ELEV. 17.86

PLAN 1" = 10'



PROFILE 1" = 10'

THE STATE OF NEW MEXICO
BRADFORD H. KNISS
No. 3874
PROFESSIONAL ENGINEER

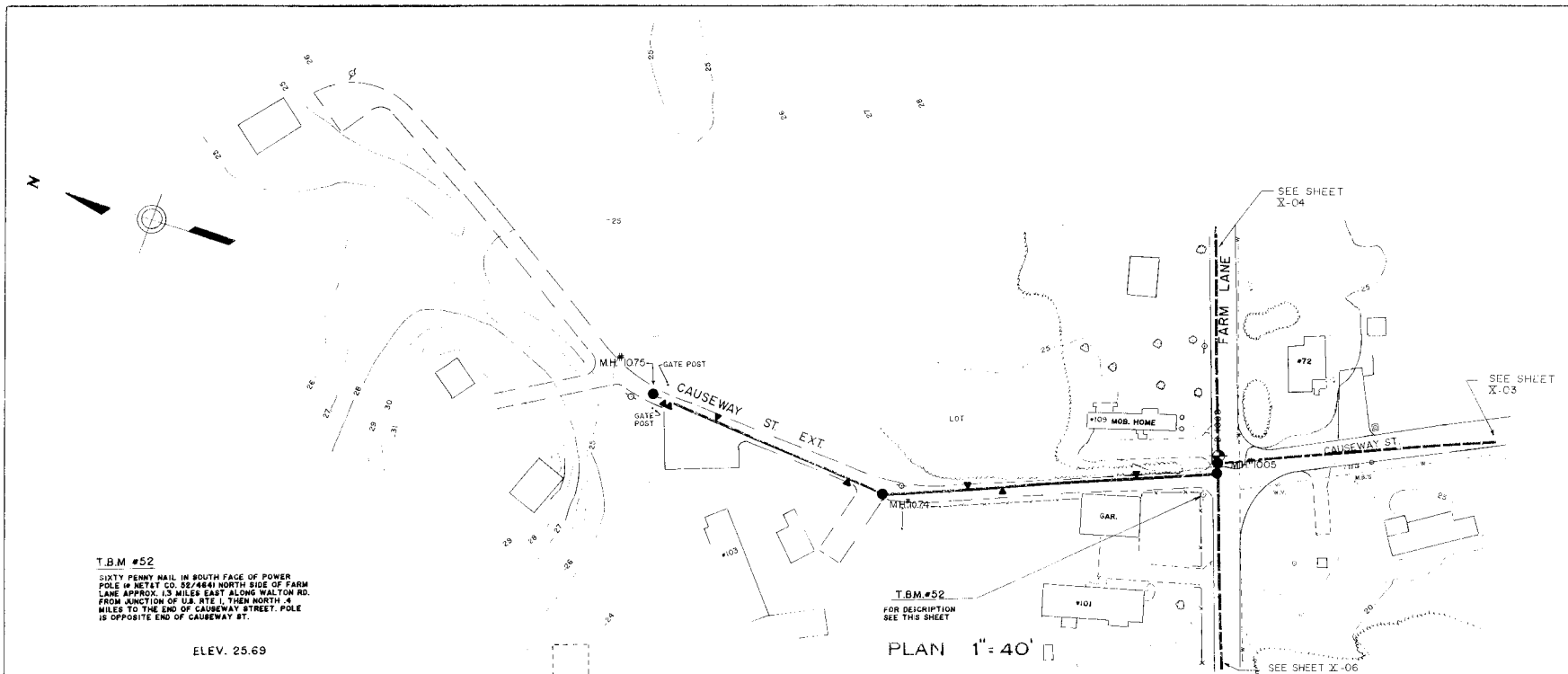
RECORD DRAWING					BHJ	9/96
0	MEJ	9/96	BHJ			
ISSUED FOR APPROVAL						
DRT	8/94	BHJ		RDK	BHJ	9/94

RECORD DRAWING

ANNES LANE

(MANHOLE NO. 189A)-(MANHOLE NO. 10.73)

1444/8704 X 27 40

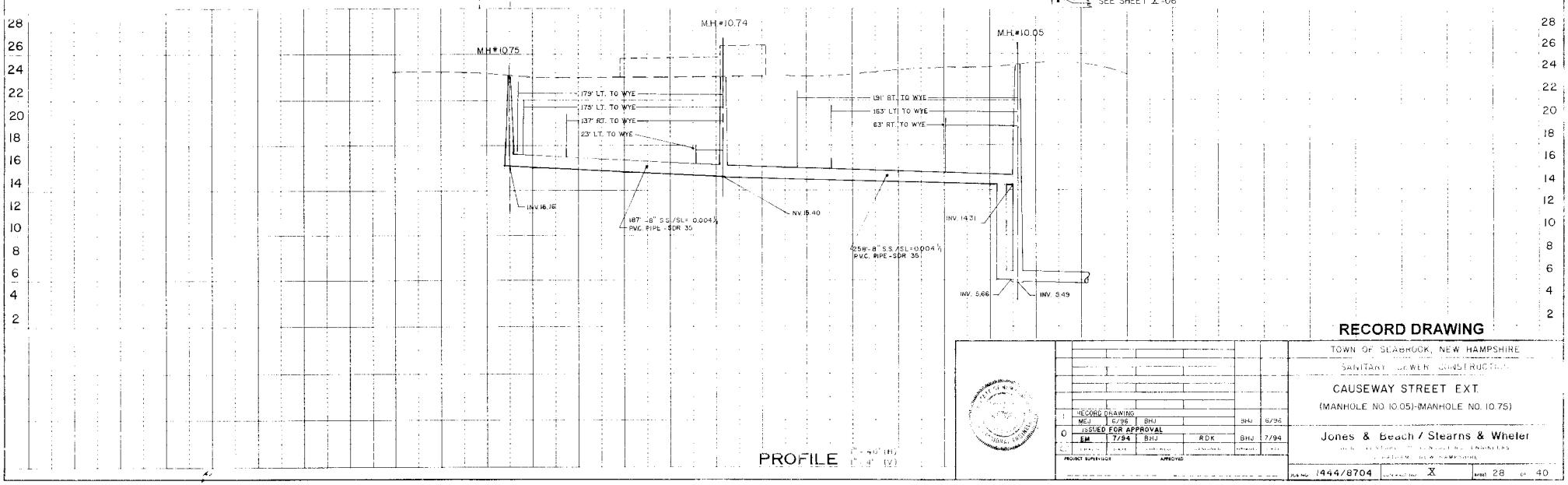


T.B.M #52

SIXTY PENNY NAIL IN SOUTH FACE OF POWER POLE ⊕ NET&T CO. 52/4641 NORTH SIDE OF FARM LANE APPROX. 1.3 MILES EAST ALONG WALTON RD. FROM JUNCTION OF U.S. RTE 1, THEN NORTH .4 MILES TO THE END OF CAUSEWAY STREET. POLE IS OPPOSITE END OF CAUSEWAY ST.

ELEV. 25.69

PLAN 1"= 40'



PROFILE 1" = 40' (H) 1" = 4' (V)

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

CAUSEWAY STREET EXT.

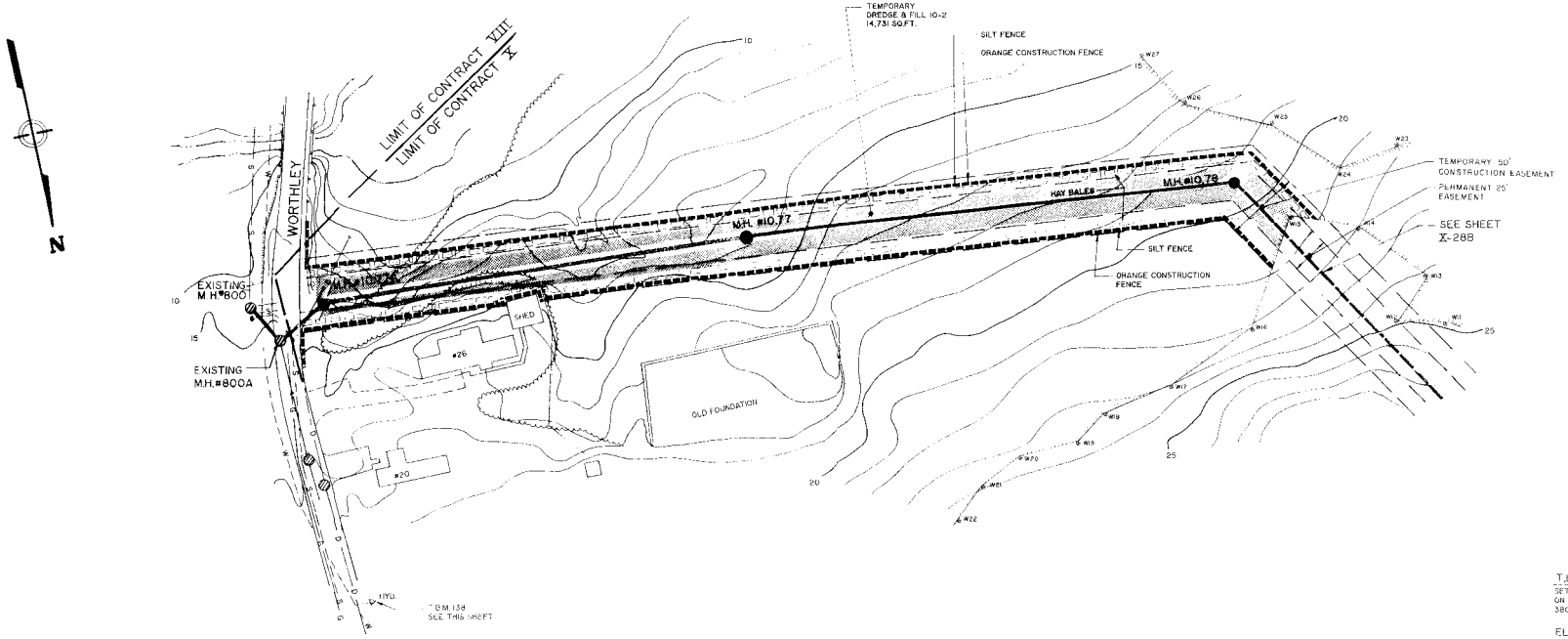
(MANHOLE NO. 10.05)-(MANHOLE NO. 10.75)

Jones & Beach / Stearns & Wheler

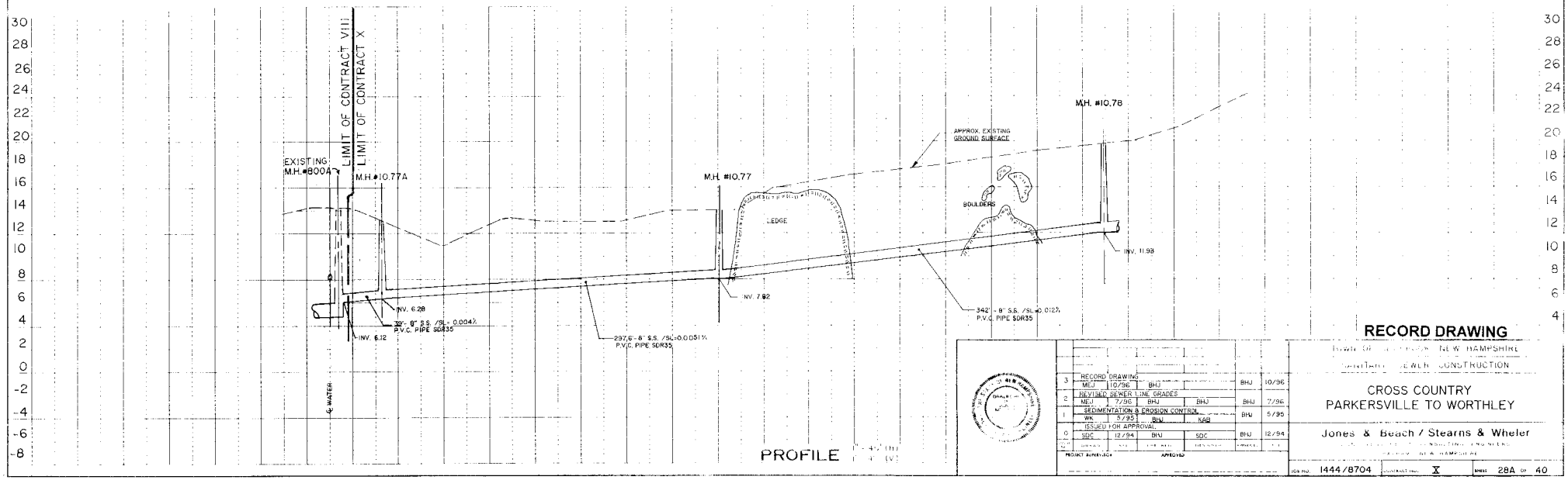
1	RECORD DRAWING	MEJ	6/96	BHJ		BHJ	6/96
0	ISSUED FOR APPROVAL	EM	7/94	BHJ	RDK	BHJ	7/94

PROJECT SUPERVISOR APPROVED

JOB NO. 1444/8704 DRAWING NO. X SHEET 28 OF 40



PLAN 1" = 40'



PROFILE 1" = 4' (H) 1" = 4' (V)

RECORD DRAWING

3	RECORD DRAWING	MEJ	10/96	BHJ	BHJ	10/96
2	REVISED SEWER LINE GRADES	MEJ	7/96	BHJ	BHJ	7/96
1	SEDIMENTATION & EROSION CONTROL	WK	5/95	BHJ	KAB	5/95
0	ISSUED FOR APPROVAL	SDC	12/94	BHJ	SDC	12/94

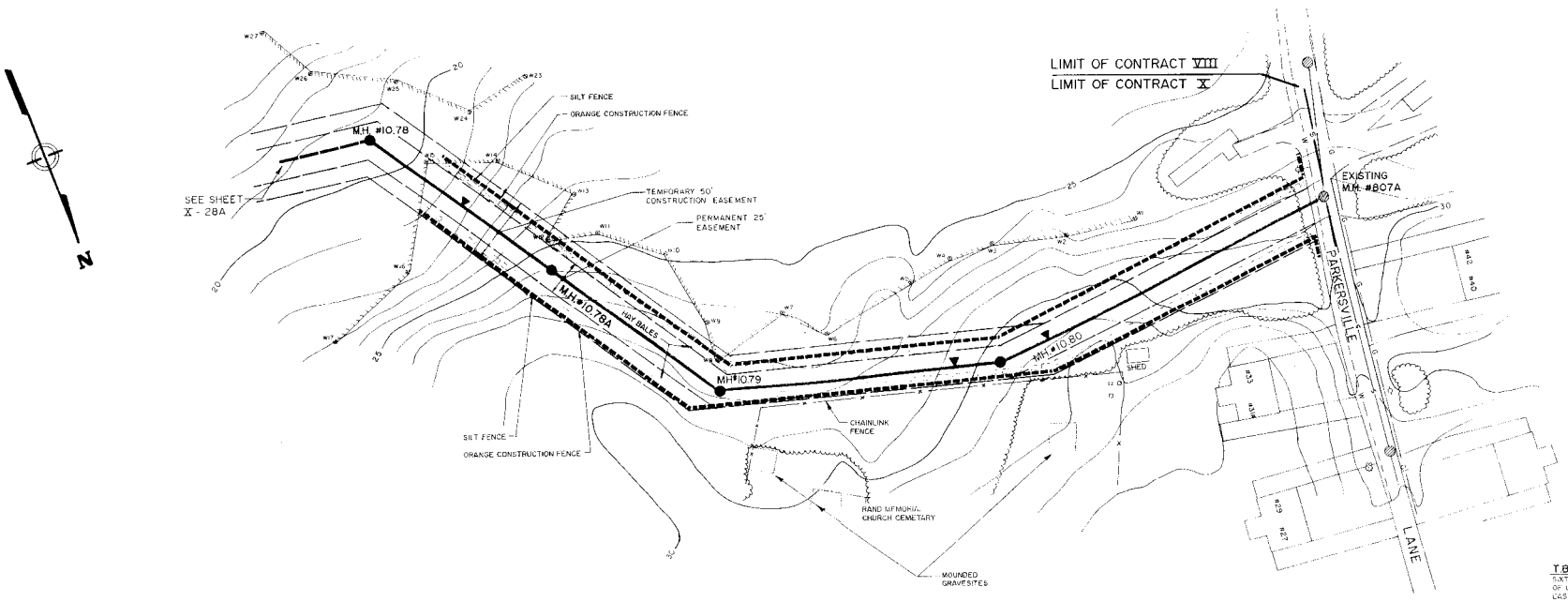
PROJECT SUPERVISOR — APPROVED

TOWN OF PARKERSVILLE NEW HAMPSHIRE
DEPARTMENT OF SEWER CONSTRUCTION

CROSS COUNTRY
PARKERSVILLE TO WORTHLEY

Jones & Beach / Stearns & Wheler
CONSULTING ENGINEERS
PARKERSVILLE, NEW HAMPSHIRE

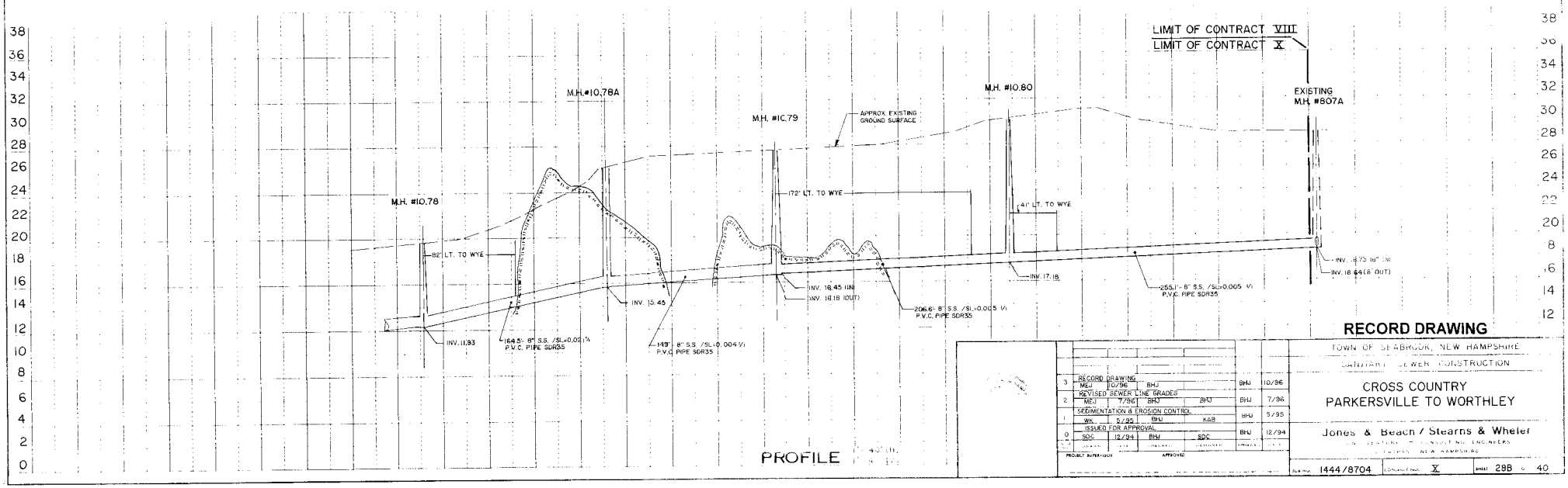
JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 28A OF 40



T.B.M. #137
SATT PENNY IN WEST FACE OF UTILITY POLE ON EAST SIDE OF PARKERSVILLE LANE APPROX 100' FROM INTERSECTION WITH SO. MAIN ST.

EL. 44.55

PLAN 1" = 40'



PROFILE

RECORD DRAWING

TOWN OF SEABROOK, NEW HAMPSHIRE

SANITARY SEWER CONSTRUCTION

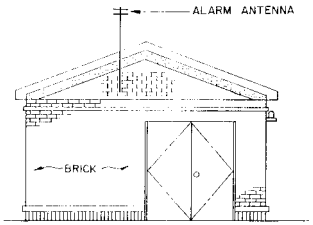
CROSS COUNTRY
PARKERSVILLE TO WORTHLEY

Jones & Beach / Stearns & Wheler

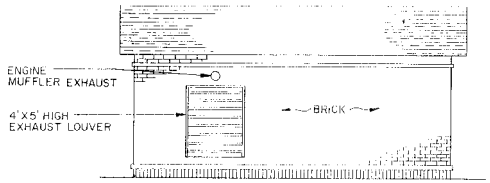
3	RECORD DRAWING	MEJ	10/96	BHJ		BHJ	10/96
2	REVISED SEWER LINE GRADES	MEJ	7/96	BHJ	BHJ	BHJ	7/96
1	SEDIMENTATION & EROSION CONTROL	WA	5/95	BHJ	KAB	BHJ	5/95
0	ISSUED FOR APPROVAL	SDC	12/94	BHJ	SDC	BHJ	12/94

PROJECT SUPERVISOR — APPROVED

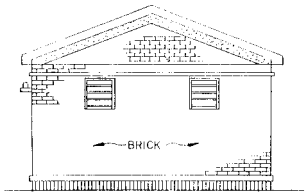
Job No. 1444/8704 — Contract No. X — Sheet 28B of 40



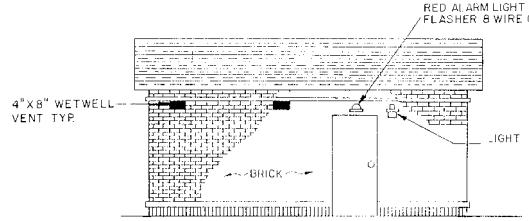
WEST ELEVATION



NORTH ELEVATION

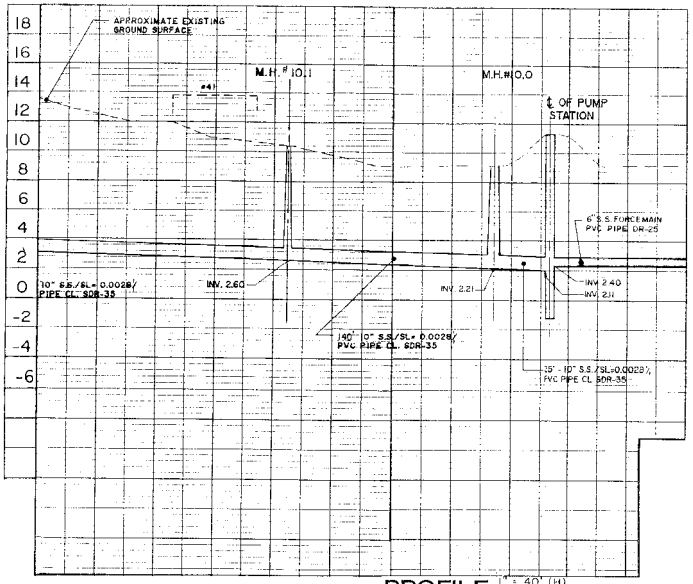


EAST ELEVATION



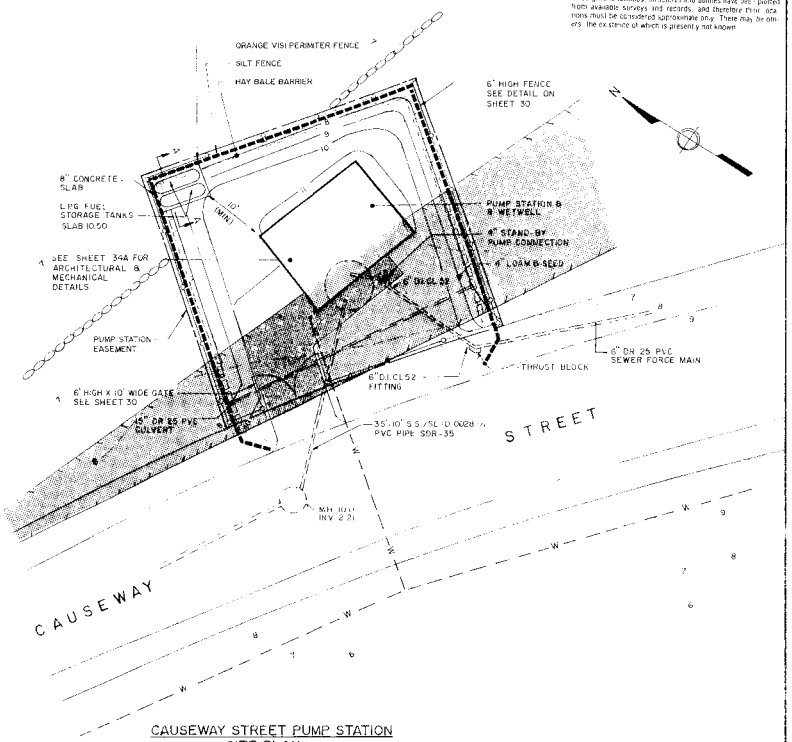
SOUTH ELEVATION

ARCHITECTURAL ELEVATIONS
SCALE: 1/4" = 1'

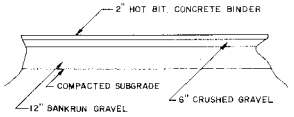


PROFILE 1" = 40' (H) 1" = 4' (V)

NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.

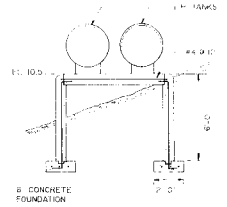

ORANGE VISI PERIMITER FENCE
SILT FENCE
HAY BALE BARRIER
6' HIGH FENCE SEE DETAIL ON SHEET 30
8" CONCRETE SLAB
L.P.G. FUEL STORAGE TANKS SLAB 10.50
PUMP STATION & WETWELL
4" STAND-BY PUMP CONNECTION
4" LOAM & SEED
SEE SHEET 34A FOR ARCHITECTURAL & MECHANICAL DETAILS
6" D.I. CL 52
PUMP STATION EASEMENT
6" DR 25 PVC SEWER FORCE MAIN
THRUST BLOCK
6" HIGH X 10' WIDE GATE SEE SHEET 30
6" D.I. CL 52 FITTING
15" OR 35 PVC CULVERT
35' 10" S.S./SL=0.0028'/ PVC PIPE SDR-35
MH 10.0 INV ℄ 2.1
STREET
CAUSEWAY

CAUSEWAY STREET PUMP STATION
SITE PLAN
SCALE: 1"=10'



PER NH DOT SPECIFICATIONS

TYPICAL DRIVEWAY CROSS SECTION
NTS



SECTION A-A
SCALE: 1/4" = 1'-0"

NO.	DESCRIPTION	BY	DATE
2	SEDIMENTATION & EROSION CONTROL	BHJ	5/95
	WK 5/95 JEC KAB		
1	GENERAL REVISIONS	BHJ	2/95
	WK 2/95 JEC BHJ		
0	ISSUED FOR APPROVAL	BHJ	11/94
	WK 11/94 JEC BHJ		

PROJECT SUPERVISOR: ALAN WEBB

TOWN OF SEABROOK, NEW HAMPSHIRE

CAUSEWAY STREET PUMP STATION

SITE PLAN AND DETAILS

Jones & Beach / Stearns & Wheler

ENGINEERS
SEABROOK, NEW HAMPSHIRE

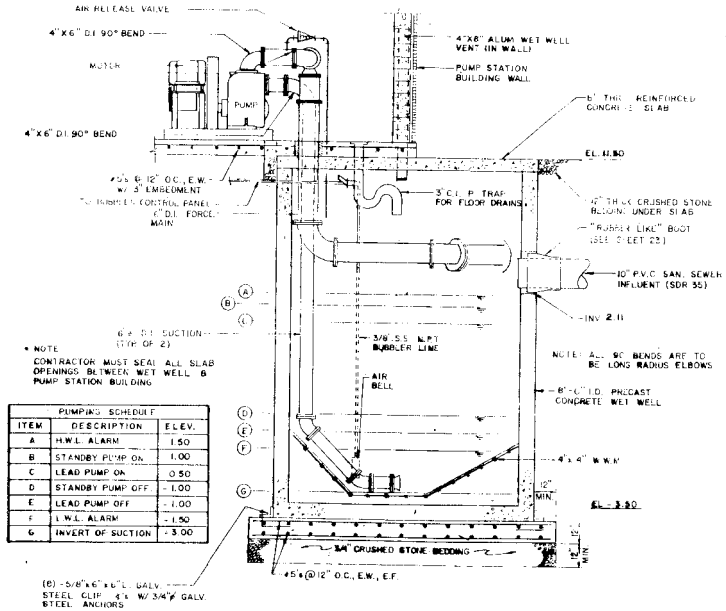
JOB NO. [illegible] CONTRACT NO. X SHEET 29 OF 40

PUMP STATION DESIGN

CONDITIONS OF SERVICE
275 G.P.M. AT 30.97 ft. TDH

PUMPING EQUIPMENT
(2) - GORMAN-RUPP, 5 H.P. PUMPS, MOD. # T4A-B
4" x 4", SELF-PRIMING, SUCTION LIFT PUMPS, w/
9 3/4" IMPELLER, 1050 R.P.M.
POWER- 120/240 VOLT/1 PHASE/60 Hz/3 WIRE

PUMP STATION CONTROL EQUIPMENT
A) High Water & Low Water Alarm Circuit
B) Power Failure Alarm Circuit
C) Air Bubbler System w/ (2) Air Compressors
D) Air Flow Rotometer
E) Alarm Horn & Silencer
F) Pump Volute Heaters
G) Pump High Temperature Protectors
H) Pump Running Lights & Elapsed Time Meters
I) Overload Resets
J) 3000 BTU Gas Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Handlight w/ Grounded Plug
L) Automatic Transfer Switch For Switching Power Source From Power Company To Emergency Generator
M) Spare Parts Normally Required Within First Year Of Operation
N) 115V, 10, CDH1 Grounded Duplex Receptacle
O) 115V Alarm Light In Vapor Tight Fixture w/ Wire Globe & Guard (Mounted Externally)
P) Radio Telemetry System with uninterruptible power supply


AIR RELEASE VALVE
4"X6" D.I. 90° BEND
METER
PUMP
4"X6" D.I. 90° BEND
4"X8" ALUM. WET WELL VENT (IN W.B.L.)
PUMP STATION BUILDING WALL
6" THK. REINFORCED CONCRETE SLAB
EL. 11.50
#5's @ 12" O.C., E.W. w/ 3" EMBEDMENT
3" C.I. P. TRAP FOR FLOOR DRAINS
12" THICK CRUSHED STONE BEDDING UNDER SLAB
"RUBBER LIKE" BOOT (SEE SHEET 23)
10" P.V.C. SAN. SEWER INFLUENT (SDR 35)
INV. 2.11
6" D.I. SUCTION (TYP. OF 2)
3/8" S.S. N.P.T. BUBBLER LINE
AIR BELL
8'-0" I.D. PRECAST CONCRETE WET WELL
#5's @ 4" W.W.M.
12" MIN.
EL. -3.50
3/4" CRUSHED STONE BEDDING
#5's @ 12" O.C., E.W., E.F.
(8) - 5/8"x6'-0" L.T.L. GALV. STEEL CLIP ∠'s w/ 3/4"ø GALV. STEEL ANCHORS

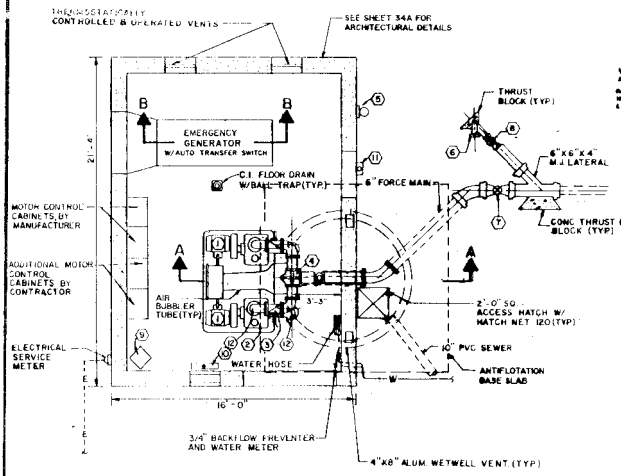
* NOTE
CONTRACTOR MUST SEAL ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

NOTE: ALL 90° BENDS ARE TO BE LONG RADIUS ELBOWS

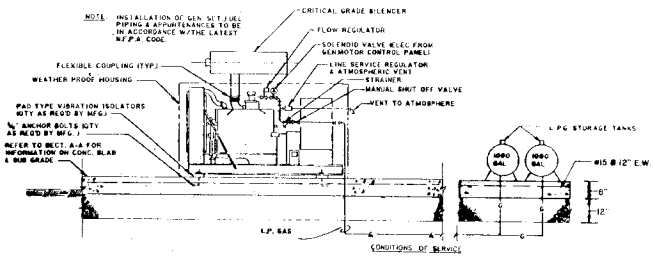
PUMPING SCHEDULE

ITEM	DESCRIPTION	EL.ELEV.
A	H.W.L. ALARM	1.50
B	STANDBY PUMP ON	1.00
C	LEAD PUMP ON	0.50
D	STANDBY PUMP OFF	- 1.00
E	LEAD PUMP OFF	- 1.00
F	L.W.L. ALARM	- 1.50
G	INVERT OF SUCTION	- 3.00

SECTION A-A
NO SCALE


THERMOSTATICALLY CONTROLLED & OPERATED VENTS
SEE SHEET 34A FOR ARCHITECTURAL DETAILS
EMERGENCY GENERATOR W/AUTO TRANSFER SWITCH
C.I. FLOOR DRAIN W/BALL TRAP(TYP.)
6" FORCE MAIN
THRUST BLOCK (TYP.)
6"X6"X4" M.J. LATERAL
CONC. THRUST BLOCK (TYP.)
MOTOR CONTROL CABINETS BY MANUFACTURER
ADDITIONAL MOTOR CONTROL CABINETS BY CONTRACTOR
AIR BUBBLER TUBE(TYP.)
2'-0" SQ. ACCESS HATCH W/ HATCH NET 120(TYP.)
ELECTRICAL SERVICE METER
10" PVC SEWER
WATER HOSE
ANTIFLOTATION BASE SLAB
16'-0"
3/4" BACKFLOW PREVENTER AND WATER METER
4"X8" ALUM. WETWELL VENT (TYP.)

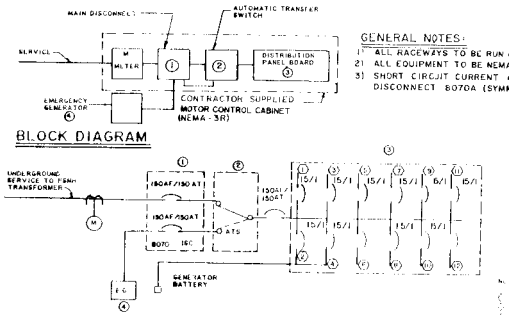
PLAN - PUMPING STATION & STANDBY GENERATOR
SCALE: 1/4" = 1'-0"


NOTE: INSTALLATION OF GEN. SET FUEL PIPING & APPURTENANCES TO BE IN ACCORDANCE W/THE LATEST N.F.P.A. CODE
CRITICAL GRADE SILENCER
FLOW REGULATOR
SOLENOID VALVE (ELEC. FROM GEN. MOTOR CONTROL PANEL)
LINE SERVICE REGULATOR & ATMOSPHERIC VENT
STRAINER
MANUAL SHUT OFF VALVE
VENT TO ATMOSPHERE
FLEXIBLE COUPLING (TYP.)
WEATHER PROOF HOUSING
PAD TYPE VIBRATION ISOLATORS (QTY AS REQ'D BY MFG.)
½" ANCHOR BOLTS (QTY AS REQ'D BY MFG.)
REFER TO SHEET A-A FOR INFORMATION ON CONC. SLAB & SUB GRADE
L.P. GAS STORAGE TANKS
1000 GAL.
1000 GAL.
#15 @ 12" E.W.
8"
12"
L.P. GAS
CONDITIONS OF SERVICE
GENERATOR:
30 KILOWATTS AT 120/240 VOLTS, 1Ø, 60 Hz, 120 AMP.
ENGINE:
62 MAX. H.P. AT 1800 R.P.M., 4 CYCLE, 6 CYL., NAT. GAS FUELED, LIQUID COOLED, & EQUIPPED W/RESIDENTIAL SERVICE, SILENCER, 12 V.D.C. ELECTRIC START., BATT. CHARGER & BLOCK HEATER

SECTION B-B
NO SCALE

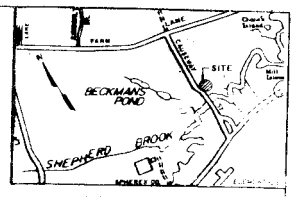
PLAN VIEW LEGEND

(1) PUMP MOTOR (TYP. 2)
(2) PUMP (TYP. 2)
(3) 6"ø FULL FLOW SWING CHECK VALVE (TYP. 2)
(4) 6"ø 3-WAY PLUG VALVE
(5) 150 WRPS LIGHT, AUTO ELEC. SWITCH
(6) 4" FLUSHING CONNECTION W/ THREADED CAP & CHAIN
(7) 6" D.I. FLG. GATE VALVE & BOX
(8) 4" D.I. FLG. GATE VALVE & BOX
(9) GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
(10) TIBERGHASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
(11) NEMA 4 (WATERPROOF) ALARM LIGHT W/ FLASHER
(12) 4"X6"ø, 90° BEND (TYP. 4)



BLOCK DIAGRAM

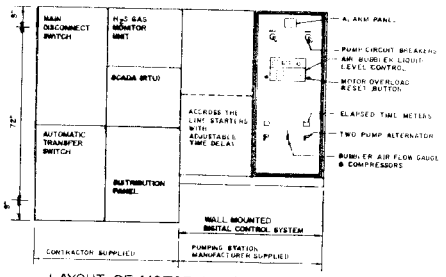
GENERAL NOTES:
1) ALL RACEWAYS TO BE RUN UNDERGROUND
2) ALL EQUIPMENT TO BE NEMA-3R.
3) SHORT CIRCUIT CURRENT AVAILABLE AT THE MAIN DISCONNECT 8070A (SYMMETRICAL).



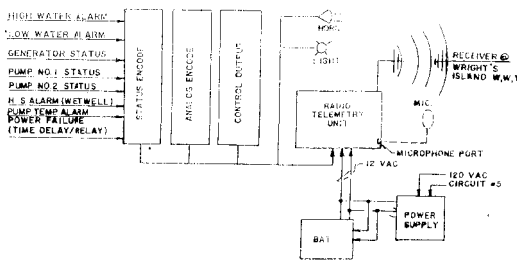
LOCUS PLAN
SCALE: 1" = 1000'

CIRCUITS

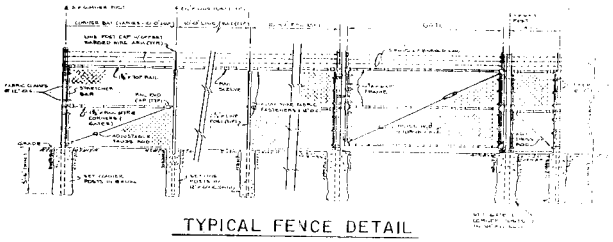
No.	DESCRIPTION	AMPS	VOLTS	PHASE
A	STATION HEATER	15	120	1
B	H2S MONITOR	15	120	1
C	HYPERTELEMETRY/SIGNAL EX.	15	120	1
D	GEN. SET BATTERY CHARGER	15	120	1
E	ALARM LIGHTS	15	120	1
F	SPARE			
G	RADIO TELEMETRY & ELAPSE TIME METER	15	120	1
H	STATION VENTILATOR BLOWER	15	120	1
I	HANDHOLD LIGHTS	15	120	1
J	STATION LIGHTS	15	120	1
K	STATION LIGHTS	15	120	1
L	SPARE			



LAYOUT OF MOTOR CONTROL CABINETS
NO SCALE



REMOTE TRANSMITTER RECEIVER



TYPICAL FENCE DETAIL
NO TO SCALE

NO.	DATE	REVISION
1	2/95	GENERAL REVISIONS
0	11/94	ISSUED FOR APPROVAL

TOWN OF SEABROOK, NEW HAMPSHIRE
CAUSEWAY STREET PUMP STATION

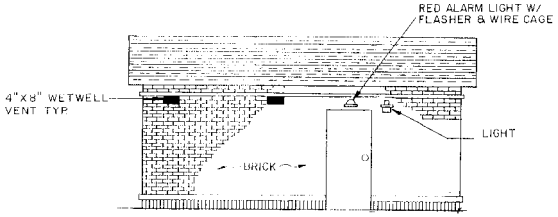
PUMP STATION DETAILS

Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

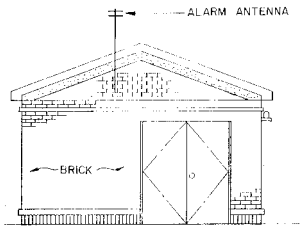
JOB NO. 1444/8704 CONTRACT NO. X SHEET 30 OF 40

MAKEPEACE P-8326

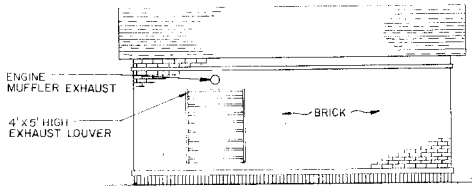
NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records and therefore their locations must be considered approximate only. There may be others, the existence of which is presently not known.



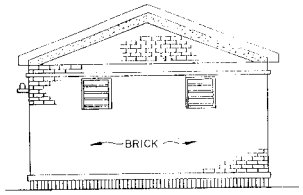
NORTH ELEVATION



EAST ELEVATION

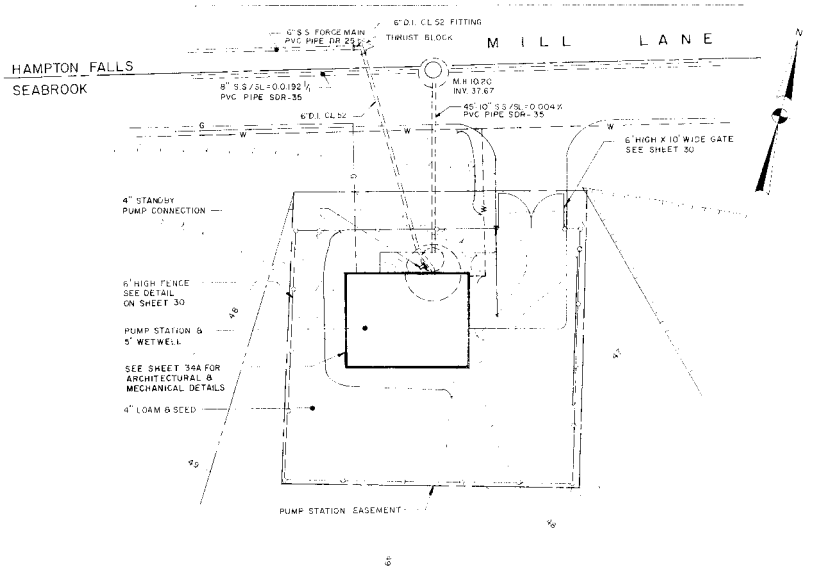


SOUTH ELEVATION

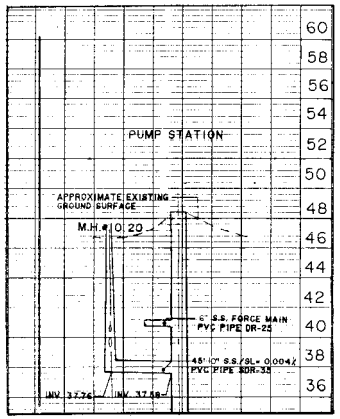


WEST ELEVATION

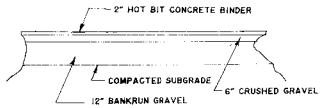
ARCHITECTURAL ELEVATIONS
SCALE: 1/4" = 1'-0"


6" D.I. CL 52 FITTING
6" S.S. FORCE MAIN PVC PIPE DR 25
THRUST BLOCK
MILL LANE
HAMPTON FALLS
SEABROOK
M.H. 10.20 INV. 37.67
8" S.S. @ SL=0.0192 PVC PIPE SDR-35
45°-10" S.S. @ SL=0.004 X PVC PIPE SDR-35
6" D.I. CL 52
6' HIGH X 10' WIDE GATE SEE SHEET 30
4" STANDBY PUMP CONNECTION
6' HIGH FENCE SEE DETAIL ON SHEET 30
PUMP STATION & 5' WETWELL
SEE SHEET 34A FOR ARCHITECTURAL & MECHANICAL DETAILS
4" LOAM & SEED
PUMP STATION EASEMENT
N

MILL LANE PUMP STATION
SITE PLAN
SCALE: 1" = 10'



PROFILE 1" = 40' (H)
1" = 4' (V)



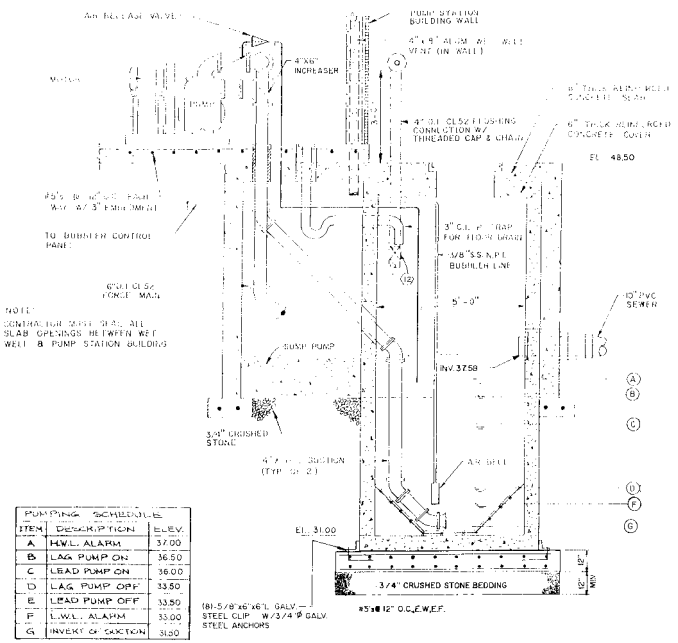
TYPICAL DRIVEWAY CROSS SECTION
N.T.S.

NO.	REVISIONS	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE
1	GENERAL REVISIONS	WK	7/95	JEC	BHJ	BHJ	7/95
0	ISSUED FOR APPROVAL	WK	11/94	JEC	BHJ	BHJ	11/94

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE
MILL LANE PUMP STATION
SITE PLAN AND DETAILS
Jones & Beach / Stearns & Wheler
JOINT VENTURE — CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 31 OF 40


AIR RELEASE VALVE
PUMP STATION BUILDING WALL
4"x9" ALUM. AIR VENT (IN WALL)
4"X6" INCREASER
MOTOR
4" CL52 FLUSHING CONNECTION W/ THREADED CAP & CHAIN
6" THICK REINF. CONCRETE COVER
EL. 48.50
#5's @ 6" O.C.E.W. PLACED VERT. W/ 3" MIN. EMBEDMENT
TO BURNER CONTROL PANEL
3" C.I. P-TRAP FOR FLOOR DRAIN
6"CL52 FORCE MAIN
3/8"SS N.P.T. BUSHLCH LINE
5'-0"
10"PVC SEWER
SUMP PUMP
INV. 37.58
3/4" CRUSHED STONE
4" CONC. SLAB (TYP. OF 2)
AIR BELL
EL. 31.00
3/4" CRUSHED STONE BEDDING
12" MIN.
(8) 1-5/8"x6"x6"L GALV. STEEL CLIP W/3/4"ø GALV. STEEL ANCHORS
#5's @ 12" O.C.E.W.E.F.
NOTE:
CONTRACTOR MUST GROUT ALL SLAB OPENINGS BETWEEN WET WELL & PUMP STATION BUILDING

PUMPING SCHEDULE		
ITEM	DESCRIPTION	ELEV.
A	H.W.L. ALARM	37.00
B	LAG PUMP ON	36.50
C	LEAD PUMP ON	36.00
D	LAG PUMP OFF	33.50
E	LEAD PUMP OFF	33.50
F	L.W.L. ALARM	33.00
G	INVERT OF SUCTION	31.50

SECTION A-A

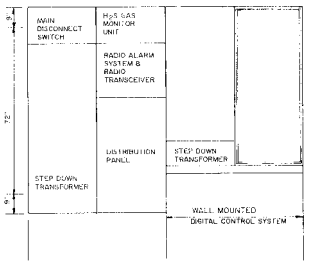
SCALE: NONE

PUMP STATION DESIGN

CONDITIONS OF SERVICE
175 G.P.M. AT 39.61 ft. TDH

PUMPING EQUIPMENT
(2) - GORMAN RUPP, 7.5 HP, 1750 r.p.m., 3 PHASE, 4" x 4", SELF PRIMING, SUBMERSIBLE PUMPS, w/ 9 3/4" IMPELLER, 1150 R.P.M.
POWER: 480 VOLTS/3PHASE/60 Hz/4 WIRE

PUMP STATION CONTROL EQUIPMENT
A) High Water & Low Water Alarm Switch
B) Power Failure Alarm Circuit
C) Air Bell or System w/ Hi Air Supply Alarm
D) Air Flow Rotameter
E) Motor Starters & Switches
F) Pump Visibility Lights
G) Pump High Temperature Protection
H) Pump Running Lights & Elapsed Time Meters
I) Control Panel
J) 50,000 BTU Gas Station Heater & Thermostat
K) 100W, 115V, Vapor Tight Floodlight w/ Guarded Pull
L) Standby Level Control For Switching Power Supplies
Power Complex To St. Pier Engine
M) Spare Parts Normally Supplied By Pump Manufacturer
N) Lightning Arrester, Grounded to Ship Ground Rod
O) 115V Alarm Light In Vapor Tight Fixture w/ Red Globe & Guard (Mounted Externally)
P) Radio Telemetry System with main/emergency power supply
Q) 3KVA Sterdiran Transformer

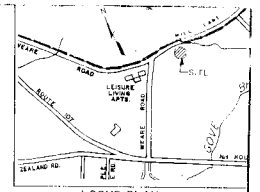


GENERAL NOTES

1) ALL MATERIALS TO BE NEW UNLESS NOTED.
2) ALL EQUIPMENT TO BE INSTALLED PER MFG. SPECIFICATIONS.
3) GRADE CHANGE CONTRACTOR ASSUMES AT THE MAIN DISCONNECT AREA (UNSUITABLE)

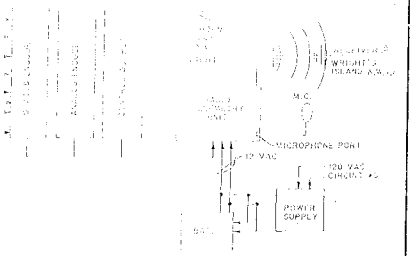
CONTRACTOR SUPPLIED MOTOR CONTROL CABINET

BLOCK DIAGRAM

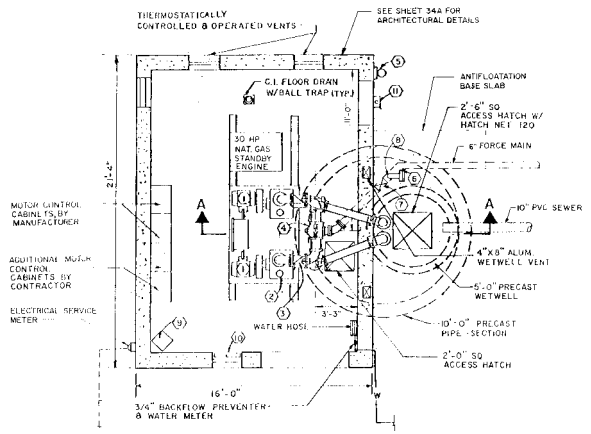


LOCUS PLAN

SCALE: 1" = 1000'



REMOTE TRANSMITTER RECEIVER

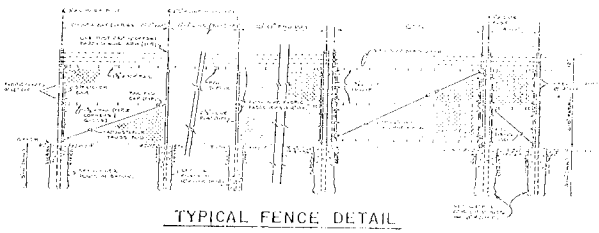

THERMOSTATICALLY CONTROLLED & OPERATED VENTS
SEE SHEET 34A FOR ARCHITECTURAL DETAILS
C.I. FLOOR DRAIN W/BALL TRAP (TYP.)
ANTIFLOATATION BASE SLAB
2'-6" SQ. ACCESS HATCH W/ HATCH NET 120
6" FORCE MAIN
30 HP NAT. GAS STANDBY ENGINE
MOTOR CONTROL CABINETS BY MANUFACTURER
ADDITIONAL MOTOR CONTROL CABINETS BY CONTRACTOR
ELECTRICAL SERVICE METER
10" PVC SEWER
4"X8" ALUM. WETWELL VENT
5'-0" PRECAST WETWELL
WATER HOSE
10'-0" PRECAST PIPE - SECTION
2'-0" SQ. ACCESS HATCH
16'-0"
3/4" BACKFLOW PREVENTER & WATER METER

PLAN - PUMPING STATION & AUTOSTART

SCALE: 1/4" = 1'-0"

PLAN VIEW LEGEND

(1) PUMP MOTOR (TYP.2)
(2) PUMP (TYP.2)
(3) 4"ø FULL FLOW SWING CHECK VALVE (TYP.2)
(4) 4"ø 3-WAY PLUG VALVE
(5) 150 WHPS LIGHT, AUTO ELEC. SWITCH
(6) 4"ø FLUSHING CONNECTION W/ THREADED CAP & CHAIN
(7) 6"ø D.I. FLG. GATE VALVE (TYP.)
(8) 6"X6"X4" ø D.I. FLG. TEE
(9) GAS UNIT HEATER, MOUNT TOP OF HEATER 8'-6" ABOVE FIN. FLOOR W/ BRACKET SUPPLIED BY HEATER MFG.
(10) FIBERGLASS WALL PROPELLER EXHAUST FAN W/ MOTOR OPERATED DAMPER
(11) NEMA 4 WATERPROOF ALARM LIGHT W/ FLASHER
(12) 4"ø D.I. FLG. GATE VALVE



TYPICAL FENCE DETAIL

NO SCALE

	GENERAL REVISIONS					
1	WK	2/95	JEC	BHJ	BHJ	2/95
0	ISSUED FOR APPROVAL					
	WK	1/94	JEC	BHJ	BHJ	11/94
	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR — APPROVED

TOWN OF SEABROOK, NEW HAMPSHIRE

MILL LANE PUMP STATION

PUMP STATION DETAILS

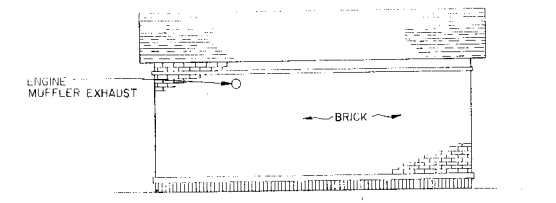
Jones & Beach / Stearns & Wheler

JOINT VENTURE — CONSULTING ENGINEERS

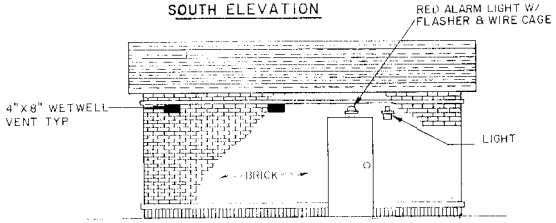
STRATHAM, NEW HAMPSHIRE

JOB NO. 1444/8704 | CONTRACT NO. X | SHEET 32 OF 40

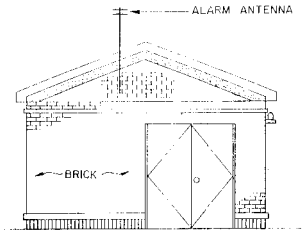
NOTES:
Underground facilities, structures and utilities have been plotted from available surveys and records, and therefore their locations must be considered approximate only. There may be others the existence of which is presently not known.



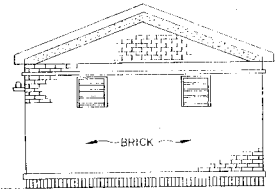
SOUTH ELEVATION



NORTH ELEVATION

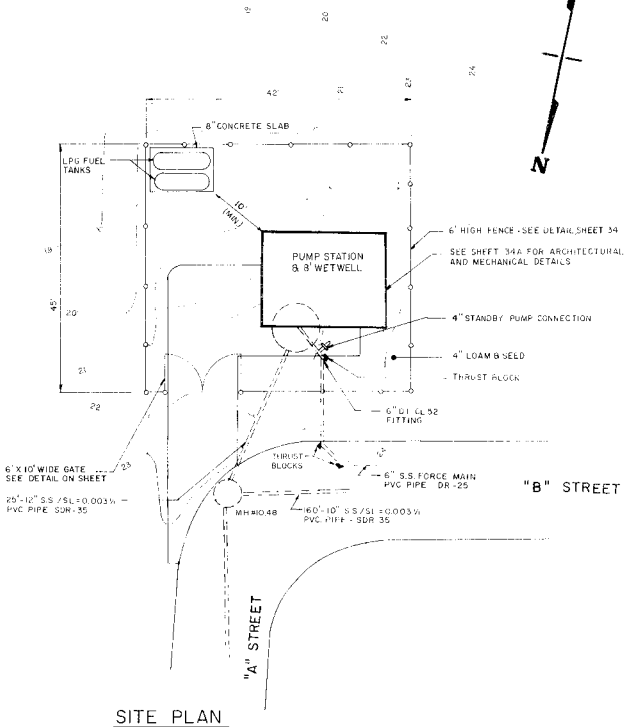


EAST ELEVATION

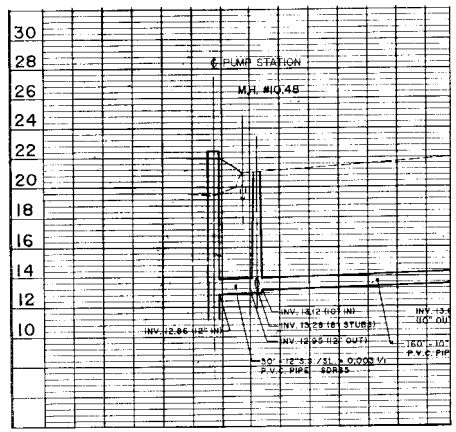


WEST ELEVATION

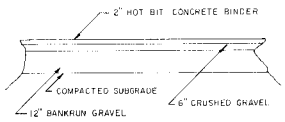
ARCHITECTURAL ELEVATIONS
SCALE: 1/4" = 1'-0"


N
8" CONCRETE SLAB
LPG FUEL TANKS
10' (MIN.)
6' HIGH FENCE - SEE DETAIL SHEET 34
PUMP STATION & 8' WETWELL
SEE SHEET 34A FOR ARCHITECTURAL AND MECHANICAL DETAILS
4" STANDBY PUMP CONNECTION
4" LOAM & SEED
THRUST BLOCK
6" DI CL 52 FITTING
6' X 10' WIDE GATE SEE DETAIL ON SHEET
THRUST BLOCKS
6" S.S. FORCE MAIN PVC PIPE DR-25
"B" STREET
25'-12" S.S. / SL = 0.003 ft. - PVC PIPE SDR-35
MH #10.48
160'-10" S.S. / SL = 0.003 ft. PVC PIPE - SDR 35
"A" STREET

SITE PLAN
SCALE: 1" = 10'



PROFILE
1"=40' (H)
1"= 4' (V)



PER NH DOT SPECIFICATIONS

TYPICAL DRIVEWAY CROSS SECTION
N.T.S.

1	GENERAL REVISIONS WK	2/95	JEC	BHJ	BHJ	2/95
0	ISSUED FOR APPROVAL WK	12/94	JEC	BHJ	BHJ	12/94
ISSUE NO.	DRAWN	DATE	CHECKED	DESIGNED	APPROVED	DATE

PROJECT SUPERVISOR _____ APPROVED _____

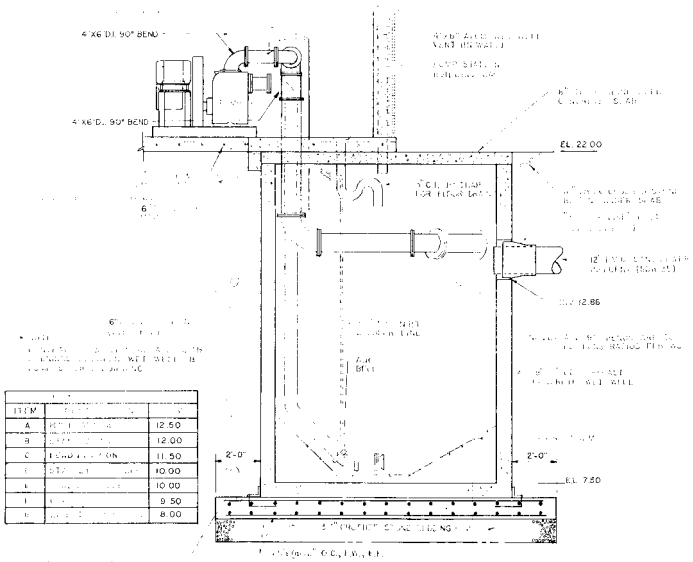
TOWN OF SEABROOK, NEW HAMPSHIRE

"A" STREET PUMP STATION

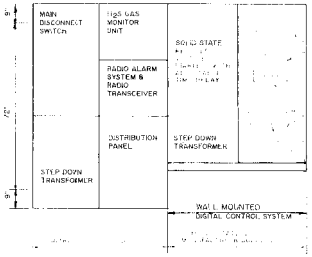
SITE PLAN & DETAILS

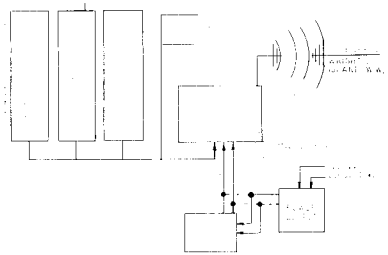
Jones & Beach / Stearns & Wheler
JOINT VENTURE - CONSULTING ENGINEERS
STRATHAM, NEW HAMPSHIRE

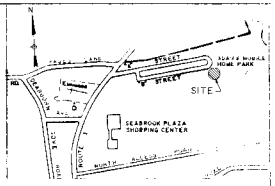
JOB NO. 1444/8704 CONTRACT NO. X SHEET 33 OF 40



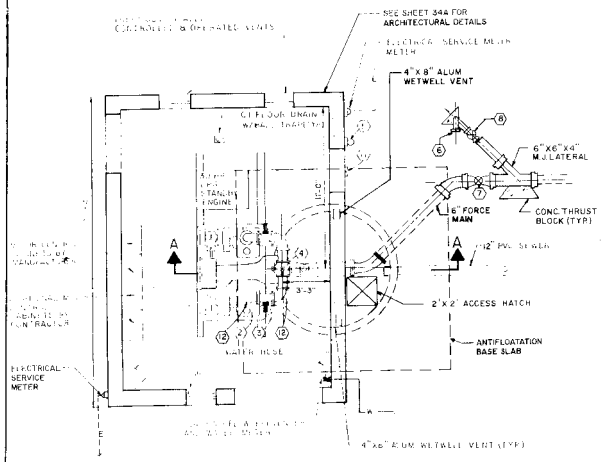
SECTION A-A
NO SCALE



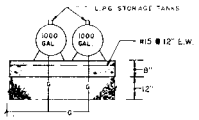




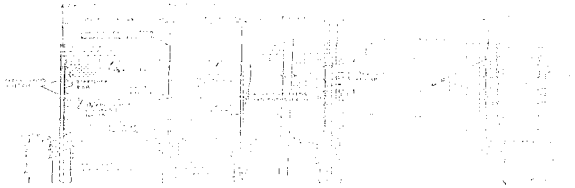
DESCRIPTION	AMPS	VOLTS	PHASE
		120	1
		120	1
		120	1
		120	1
		120	1
		120	1
		120	1
		120	1
		120	1



PLAN PUMPING STATION & AUTOSTART
SCALE: 1/4"=1'-0"



FUEL TANK AND SLAB DETAIL
NO SCALE



TYPICAL FENCE DETAIL

(12) 4"X6"Ø 90° BEND (TYP. 4)

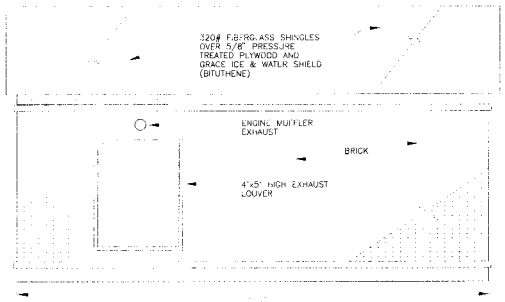
NO.	DATE	REVISION
1	2/95	GENERAL REVISIONS
0	12/94	ISSUED FOR APPROVAL

"A" STREET PUMP STATION

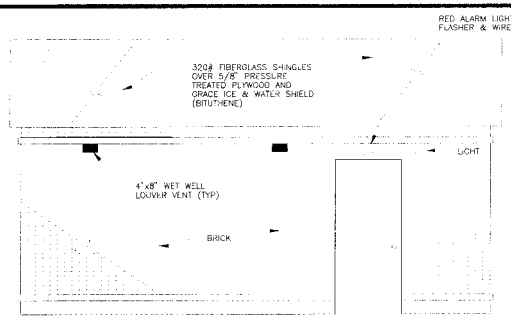
PUMP STATION DETAILS

Jones & Tech / Stearns & Wheler

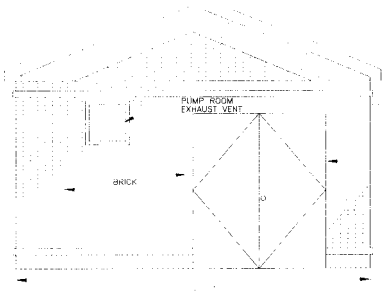
DATE 1994/12/14 | SCALE X | SHT. 34 OF 40


320# FIBERGLASS SHINGLES OVER 5/8" PRESSURE TREATED PLYWOOD AND GRACE ICE & WATER SHIELD (BITUTHENE)
ENGINE MUFFLER EXHAUST
BRICK
4"x5' HIGH EXHAUST LOUVER

REAR
3/8" = 1'-0"

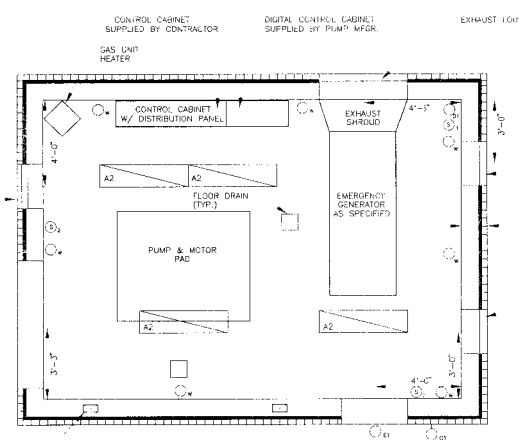

RED ALARM LIGHT W/ FLASHER & WIRE CAGE
320# FIBERGLASS SHINGLES OVER 5/8" PRESSURE TREATED PLYWOOD AND GRACE ICE & WATER SHIELD (BITUTHENE)
LIGHT
4"x8" WET WELL LOUVER VENT (TYP)
BRICK

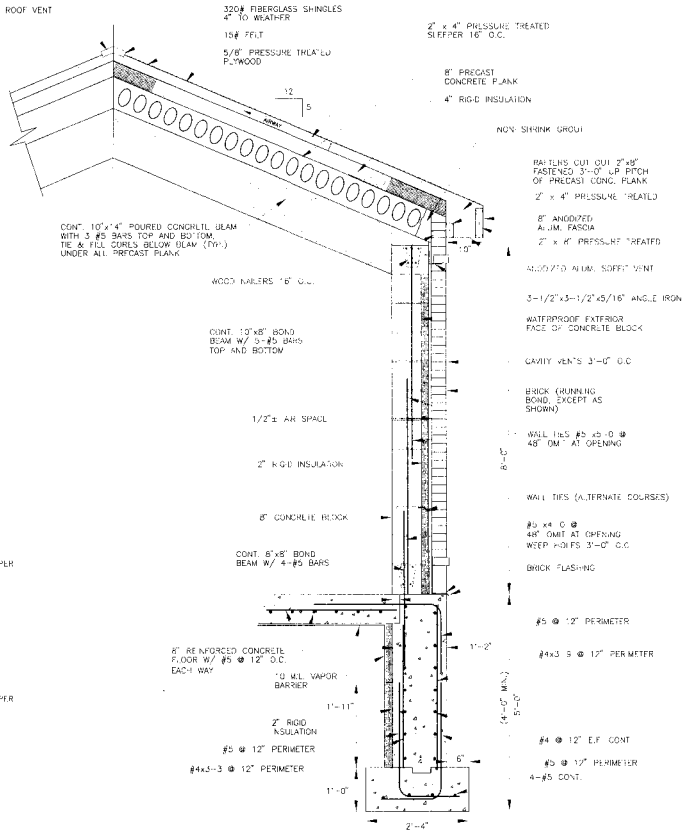
FRONT
3/8" = 1'-0"



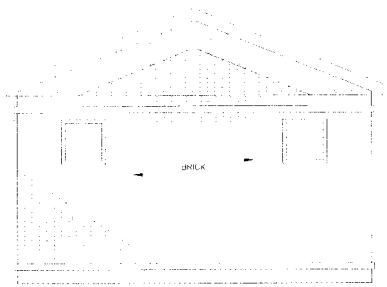
LT. SIDE
3/8" = 1'-0"

METAL STEEL FRAME AND SOLID CORE STEEL DOORS. CONTACT THE OWNER WHEN KEYING DOORS




ROOF VENT
320# FIBERGLASS SHINGLES 4" TO WEATHER
15# FELT
5/8" PRESSURE TREATED PLYWOOD
2" x 4" PRESSURE TREATED SLEEPER 16" O.C.
8" PRECAST CONCRETE PLANK
4" RIGID INSULATION
NON-SHRINK GROUT
RAFTERS CUT OUT 2"x8" FASTENED 3'-0" O.P. PITCH OF PRECAST CONC. PLANK
2" x 4" PRESSURE TREATED
8" ANODIZED ALUM. FASCIA
2" x 8" PRESSURE TREATED
PERFORATED ALUM. SOFFIT VENT
3-1/2"x3-1/2"x5/16" ANGLE IRON
WATERPROOF EXTERIOR FACE OF CONCRETE BLOCK
CAVITY VENTS 3'-0" O.C.
BRICK (RUNNING BOND, EXCEPT AS SHOWN)
WALL TIES #5 x5'-0 @ 48" OM'T AT OPENING
WALL TIES (ALTERNATE COURSES)
#5 x4'-0 @ 48" OMIT AT OPENING
WEEP HOLES 3'-0" O.C.
BRICK FLASHING
CONT. 10"x4" POURED CONCRETE BEAM WITH 3 #5 BARS TOP AND BOTTOM, TIE & FILL CORES BELOW BEAM (TYP.) UNDER ALL PRECAST PLANK
WOOD NAILERS 16" O.C.
CONT. 10"x8" BOND BEAM W/ 3-#5 BARS TOP AND BOTTOM
1/2"± AIR SPACE
2" RIGID INSULATION
8" CONCRETE BLOCK
CONT. 8"x8" BOND BEAM W/ 4-#5 BARS
8" REINFORCED CONCRETE FLOOR W/ #5 @ 12" O.C. EACH WAY
10 MIL VAPOR BARRIER
2" RIGID INSULATION
#5 @ 12" PERIMETER
#4x3-3 @ 12" PERIMETER
#5 @ 12" PERIMETER
#4x3-3 @ 12" PERIMETER
#4 @ 12" E.F. CONT
#5 @ 12" PERIMETER
4-#5 CONT.

TYPICAL WALL SECTION
SCALE: 3/4" = 1'-0"

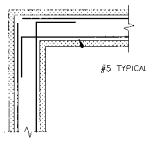


RT. SIDE
3/8" = 1'-0"

FLOOR PLAN
3/8" = 1'-0"

ELECTRICAL LEGEND

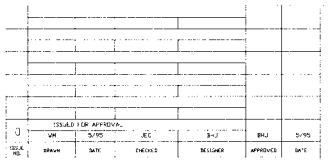
A2	2-40 WATT LAMPS, SURFACE MOUNTED, SHIELDED, MOISTURE & CORROSION RESISTANT
○D1	35 WATT H.P.S., BRACKET MOUNTED WEATHER PROOF, VANDAL & CORROSION RESISTANT, PHOTOELEC ACTUATED
○D1	75 WATT H.P.S. WALL MTD., MOISTURE & CORROSION RESISTANT
○E1	100 WATT RED LAMP, WALL MOUNTED, WEATHER PROOF, VANDAL & CORROSION RESISTANT
S_1	SWITCH FOR DI LIGHT
$S_{3/2}$	3-WAY SWITCH FOR ALL A2 LIGHTS
○W	DUPLEX RECEPTACLE, WEATHER PROOF



BOND BEAM CORNER REINFORCEMENT DETAIL
NOT TO SCALE

NOTES:

1. ROOF SHALL BE DESIGNED TO SUPPORT 100 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD.
2. FLOOR SHALL BE DESIGNED TO SUPPORT 300 POUNDS PER SQUARE FOOT UNIFORM LIVE LOAD.
3. THE CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN BEARING THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NEW HAMPSHIRE.



TOWN OF SEABROOK, NEW HAMPSHIRE

PUMP STATION BUILDING

ARCHITECTURAL - MECHANICAL/ELECTRICAL DETAILS

Jones & Beach / Stearns & Wheeler
JOINT VENTURE - CONSULTING ENGINEERS
STRAT-AM, NEW HAMPSHIRE

JOB NO. 8704/1444 | CONTRACT NO. X | SHEET 34A OF 40